

Prior Art Document

(FILE 'HOME' ENTERED AT 14:16:53 ON 24 APR 2007)

L1 FILE 'REGISTRY' ENTERED AT 14:17:45 ON 24 APR 2007
76 S EEEAYGW'NLE'DF/SQSFP

L2 FILE 'CAPLUS' ENTERED AT 14:18:39 ON 24 APR 2007
55 S L1

L3 FILE 'REGISTRY' ENTERED AT 14:18:54 ON 24 APR 2007
114425 S ALAL/SQSP
L4 17544 S ALALA/SQSP
L5 14925 S VLALA/SQSP
L6 31615 S FALA/SQSP

L7 FILE 'CAPLUS' ENTERED AT 14:23:02 ON 24 APR 2007
14743 S L3
L8 3622 S L4
L9 2348 S L5
L10 5282 S L6
L11 2 S L2 AND (L7 OR L8 OR L9 OR L10)
SEL L11 2 RN
L12 388792 S E1-E13

L13 FILE 'REGISTRY' ENTERED AT 14:29:11 ON 24 APR 2007
13 S E1-E13
L14 2 S L13 AND L1
L15 3 S L13 AND (L3 OR L4 OR L5 OR L6)
E CEMADOTIN/CN
L16 1 S E3

L17 FILE 'CAPLUS' ENTERED AT 14:43:15 ON 24 APR 2007
30 S L16
L18 0 S L2 AND L17

L19 FILE 'REGISTRY' ENTERED AT 14:46:34 ON 24 APR 2007
E HEMIASTERLIN/CN
1 S E3
L20 E ESPERAMICIN C/CN
1 S E3
L21 E NEOCARZINOSTATIN/CN
1 S E3
L22 E MAYTANSINOID DM1/CN
1 S E2
E RHIZOXIN/CN
L23 1 S E3

L24 FILE 'CAPLUS' ENTERED AT 14:51:33 ON 24 APR 2007
39 S L19
L25 21 S L20
L26 877 S L21
L27 63 S L22
L28 167 S L23
L29 0 S L2 AND (L24 OR L25 OR L26 OR L27 OR L28)

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(FILE 'HOME' ENTERED AT 15:59:44 ON 24 APR 2007)

FILE 'REGISTRY' ENTERED AT 15:59:58 ON 24 APR 2007
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FILE 'CAPLUS' ENTERED AT 16:00:16 ON 24 APR 2007
L2 5282 S L1
L3 122699 S CONJUGAT?/OBI
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E E3+ALL
L4 239331 S ANTITUMOR AGENTS+OLD/CT
L5 176451 S LIGAND#/OBI

=> s l2 and l4 and l5
L6 31 L2 AND L4 AND L5

=> s l6 and py<2002
L7 8 L6 AND PY<2002

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=> d l7 1-8 ibib abs hitstr hitseq

L7 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:310866 CAPLUS
DOCUMENT NUMBER: 140:337887
TITLE: Alpha-2 macroglobulin receptor as heat shock protein
receptor for screening compounds useful for diagnosis
and treatment of autoimmune, proliferative, and
infectious diseases
INVENTOR(S): Srivastava, Pramod K.
PATENT ASSIGNEE(S): University of Connecticut Health Center, USA
SOURCE: U.S. Pat. Appl. Publ., 185 pp., Cont.-in-part of U.S.
Ser. No. 668,724.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------------------------------------------------------|------|----------|-----------------|--------------|
| US 2004072993 | A1 | 20040415 | US 2000-750972 | 20001228 |
| US 7179462 | B2 | 20070220 | | |
| US 7186515 | B1 | 20070306 | US 2000-625137 | 20000725 |
| CA 2410736 | A1 | 20011206 | CA 2001-2410736 | 20010604 <-- |
| WO 2001092474 | A1 | 20011206 | WO 2001-US18041 | 20010604 <-- |
| W: AU, CA, JP | | | | |
| RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR | | | | |
| EP 1290140 | A1 | 20030312 | EP 2001-941889 | 20010604 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR | | | | |
| JP 2004514113 | T | 20040513 | JP 2002-500668 | 20010604 |
| PRIORITY APPLN. INFO.: | | | | |
| | | | US 2000-209095P | P 20000602 |
| | | | US 2000-625137 | A2 20000725 |
| | | | US 2000-668724 | A2 20000922 |
| | | | US 2000-750972 | A 20001228 |
| | | | WO 2001-US18041 | W 20010604 |
| AB The present invention relates to the use of α 2 macroglobulin | | | | |

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("α2M") receptor as a heat shock protein receptor, cells that express the α2M receptor bound to an HSP, and antibodies and other mols. that bind the α2M receptor-HSP complex. The invention also relates to screening assays to identify compds. that interact with the α2M receptor, and modulate the interaction of the α2M receptor with its ligand, such as HSPs, and methods for using compns. comprising α2M-receptor sequences for the diagnosis and treatment of immune disorders, proliferative disorders, and infectious diseases.

IT 680295-94-7, α2-macroglobulin (human precursor)
 RL: ARU (Analytical role, unclassified); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (amino acid sequence; α2 macroglobulin receptor as heat shock protein receptor for screening compds. useful for diagnosis and treatment of autoimmune, proliferative, and infectious diseases)
 RN 680295-94-7 CAPLUS
 CN α2-macroglobulin (human precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 680295-94-7, α2-macroglobulin (human precursor)
 RL: ARU (Analytical role, unclassified); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (amino acid sequence; α2 macroglobulin receptor as heat shock protein receptor for screening compds. useful for diagnosis and treatment of autoimmune, proliferative, and infectious diseases)
 RN 680295-94-7 CAPLUS
 CN α2-macroglobulin (human precursor) (9CI) (CA INDEX NAME)

SEQ 1 MGKNKLLHPS LVLLLLLVLLP TDASVSGKPQ YMVLVPSLLH TETTEKGCVL
 51 LSYLNETVTV SASLESVRGN RSLFTDLEAE NDVLHCVAFA VPKSSSNEEV
 101 MFLTQVQKGP TQEFKKRTTV MVKNEDSLVF VQTDKSIYKP GQTVKFRVVS
 151 MDENFHPLNE LIPLVYIQDP KGNRIAQWQS FQLEGGLKQF SFPLSSEPFQ
 201 GSYKVVVQKK SGGRTEHPFT VEEFVLPKFE VQVTVPKIIT ILEEE MNVSV
 251 CGLYTYGKPV PGHVTVSICR KYSDASDCHG EDSQAFCEKF SGQLNSHGCF
 301 YQQVKTQVFQ LKRKEYEMKL HTEAQIQEEG TVVELTGRQS SEITRTITKL
 351 SFVKVD SHFR QGIPFFGQVR LVDGKGVIP NKVIFIRGNE ANYYSNATTD
 401 EHGLVQFSIN TTNVMGTSLT VRVNYKDRSP CYGYQWVSEE HEEAHTAYL
 451 VFSPSKSFVH LEPMSHELPC GHTQTQAHY ILNGGTLLGL KKLSFYYLIM
 501 AKGGIVRTGT HGLLVKQEDM KGHFSISIPV KSDIAPVARL LIYAVLPTGD
 551 VIGDSAKYDV ENCLANKVDL SFSPSQSLPA SHAHLRVTA PQSVCALRAV
 601 DQSVLLMKPD AELSASSVYN LLPEKDLTGF PGPLNDQDDE DCINRHNVI
 651 NGITYTPVSS TNEKDMYSFL EDMGLKAFTN SKIRKPKMCP QLQQYEMHGP
 701 EGLRVGFYES DVMGRGHARL VHVEEPTET VRKYFPETWI WDLVVVNSAG
 751 VAEVGVTVPD TITEWKAGAF CLSEDAGLGI SSTASLRAFQ PFFVELTMPY
 801 SVIRGEAFTL KATVLNLYPK CIRVSVQLEA SPAFLAVPVE KEQAPHCICA
 851 NGRQTVSWAV TPKSLGNVNF TVSAEALSEQ ELCGTEVPSV PEHGRKDTVI
 901 KPLLVEPEGL EKETT FNSSL CPSGGEVSEE LSLKLPPNVV EESARASVSV
 951 LGDILGSAMQ NTQNLQMPY GCGEQNMVLF APNIYVLDYL NETQQLTPEV
 1001 KSKAIGY LNT GYQRQLNYKH YDGSYSTFGE RYGRNQGNW LTAFLVKTF
 1051 QARAYIFIDE AHITQALIWL SQRQKDNCGF RSSGSLNNA IKGGVEDEV
 1101 LSAYITIALL EIPLTVTHPV VRNALFCLES AWKTAQEGDH GSHVYTKALL
 1151 AYAFALAGNQ DKRKEVLKSL NEEAVKKDONS VHWERPQKPK APVGHFYEPQ
 1201 APSAEVEMTS YVLLAYLTAQ PAPTSED LTS ATNIVKWITK QQNAQGGFSS
 1251 TQDTVVALHA LSKYGAATFT RTGKAAQVTI QSSGTFSSKF QVDNNNRLL
 1301 QQVSLPELPG EYSMKVTGEG CVYLQTS LKY NILPEKEEFP FALGVQTL
 1351 TCDEPKAHTS FQISLSVSYT GSRASANMAI VDKMVS GFI PLKPTVKMLE
 1401 RSNHVS RTEV SSNHVLIYLD KVSNQTL SLF FTVLQDVPVR DLKPAIVKVY

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1451 DYYETDEFAI AEYNAPCSKD LGNA

REFERENCE COUNT: 155 THERE ARE 155 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:759252 CAPLUS

DOCUMENT NUMBER: 139:275728

TITLE: Human PRO polypeptides, polynucleotides, and antibodies for agonist/antagonist screening and diagnosis and treatment of cartilage diseases, diabetes mellitus and cancers

INVENTOR(S): Eaton, Dan L.; Filvaroff, Ellen; Gerritsen, Mary E.; Goddard, Audrey; Godowski, Paul J.; Grimaldi, J. Christopher; Gurney, Austin L.; Watanabe, Colin K.; Wood, William I.

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 396 pp., Cont.-in-part of U.S. Ser. No. 6,867.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 152

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| US 2003181669 | A1 | 20030925 | US 2002-63570 | 20020502 |
| AT 310810 | T | 20051215 | AT 2001-127791 | 19980916 |
| ES 2253320 | T3 | 20060601 | ES 2001-127791 | 19980916 |
| NZ 528704 | A | 20050225 | NZ 1999-528704 | 19990308 |
| CA 2450824 | A1 | 20000420 | CA 1999-2450824 | 19991005 <-- |
| EP 1466977 | A1 | 20041013 | EP 2004-7618 | 19991202 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY | | | | |
| NZ 523206 | A | 20041224 | NZ 2000-523206 | 20000211 |
| NZ 523207 | A | 20041224 | NZ 2000-523207 | 20000211 |
| NZ 523208 | A | 20041224 | NZ 2000-523208 | 20000211 |
| NZ 523209 | A | 20041224 | NZ 2000-523209 | 20000211 |
| WO 2000070050 | A1 | 20001123 | WO 2000-US7532 | 20000321 <-- |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2481685 | A1 | 20010308 | CA 2000-2481685 | 20000824 <-- |
| CA 2481691 | A1 | 20010308 | CA 2000-2481691 | 20000824 <-- |
| CA 2481731 | A1 | 20010308 | CA 2000-2481731 | 20000824 <-- |
| CA 2481756 | A1 | 20010308 | CA 2000-2481756 | 20000824 <-- |
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| US 2002102723 | A1 | 20020801 | US 2001-870574 | 20010530 |
| US 6551799 | B2 | 20030422 | | |
| EP 1657251 | A2 | 20060517 | EP 2005-24036 | 20010601 |

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| EP 1657251 | A3 | 20060524 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, AL, TR | | | | |
| AU 758921 | B2 | 20030403 | AU 2001-57764 | 20010801 |
| AU 759004 | B2 | 20030403 | AU 2001-57765 | 20010801 |
| CA 2420193 | A1 | 20020228 | CA 2001-2420193 | 20010823 |
| JP 2004520810 | T | 20040715 | JP 2002-522275 | 20010823 |
| US 2003073129 | A1 | 20030417 | US 2001-946374 | 20010904 |
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| US 2003199021 | A1 | 20031023 | US 2001-13924 | 20011025 |
| EP 1397383 | A2 | 20040317 | EP 2001-990229 | 20011213 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
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| AU 772734 | B2 | 20040506 | AU 2002-14771 | 20020201 |
| AU 778585 | B2 | 20041209 | AU 2002-14753 | 20020201 |
| CA 2449602 | A1 | 20021219 | CA 2002-2449602 | 20020403 |
| WO 2002101069 | A2 | 20021219 | WO 2002-US10513 | 20020403 |
| WO 2002101069 | A3 | 20030904 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1402260 | A2 | 20040331 | EP 2002-731246 | 20020403 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| JP 2005500030 | T | 20050106 | JP 2003-503819 | 20020403 |
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| US 2003191288 | A1 | 20031009 | US 2002-63618 | 20020503 |
| US 2003191284 | A1 | 20031009 | US 2002-63664 | 20020507 |
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| US 2003148438 | A1 | 20030807 | US 2002-145821 | 20020514 |
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| US 2003134380 | A1 | 20030717 | US 2002-147509 | 20020516 |
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| US 2003199027 | A1 | 20031023 | US 2002-152396 | 20020520 |
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| US 2003068696 | A1 | 20030410 | US 2002-192014 | 20020709 |
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| US 2003049745 | A1 | 20030313 | US 2002-194485 | 20020711 |
| US 2003064446 | A1 | 20030403 | US 2002-194460 | 20020711 |
| US 2003153037 | A1 | 20030814 | US 2002-194457 | 20020711 |
| US 2003059879 | A1 | 20030327 | US 2002-194456 | 20020712 |
| US 2003064448 | A1 | 20030403 | US 2002-194484 | 20020712 |
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| US 2003068705 | A1 | 20030410 | US 2002-195886 | 20020715 |
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| US 2003065159 | A1 | 20030403 | US 2002-196757 | 20020716 |
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| US 2003180881 | A1 | 20030925 | US 2002-202475 | 20020723 |
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| US 2003068769 | A1 | 20030410 | US 2002-207920 | 20020729 |
| US 2003068773 | A1 | 20030410 | US 2002-208023 | 20020729 |
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PRIORITY APPLN. INFO.:

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| AU 1998-93178 | A3 19981002 |
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| US 1999-134287P | P 19990514 |
| US 1999-140650P | P 19990622 |
| US 1999-149395P | P 19990817 |
| US 1999-151689P | P 19990831 |
| CA 1999-2344465 | A3 19991005 |
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| EP 2001-939834 | A3 20010601 |
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Prior Art Document

| | |
|-----------------|-------------|
| WO 2001-US26626 | W 20010823 |
| US 2001-990711 | A1 20011114 |
| US 2001-992521 | B1 20011114 |
| WO 2001-US48938 | W 20011213 |
| US 2002-52586 | A1 20020115 |
| WO 2002-US10513 | W 20020403 |
| US 2002-123155 | A1 20020415 |
| US 2002-127825 | A1 20020422 |
| US 2002-127966 | B1 20020423 |
| US 2002-141703 | A1 20020508 |
| US 2002-145627 | A1 20020514 |
| US 2002-145751 | A 20020514 |
| US 2002-146793 | A1 20020515 |
| US 2002-197703 | B1 20020717 |
| US 2002-197708 | A1 20020717 |
| US 2002-199666 | A1 20020718 |
| US 2002-199464 | B1 20020719 |
| US 2002-211858 | A1 20020802 |
| AU 2003-261484 | A 20031106 |
| US 2004-797366 | A1 20040309 |

AB The present invention is directed to novel PRO polypeptides, and to nucleic acid mols. encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antisense oligonucleotide probes and antibodies which bind to the polypeptides of the present invention, and to methods for producing the polypeptides of the present invention. The PRO polypeptides, polynucleotides and antibodies are useful for screening of agonists and antagonists, as well as for diagnosis and treatment of PRO protein-associated diseases, such as sports-related joint problems, articular cartilage defects, osteoarthritis, rheumatoid arthritis, diabetes, hyper- or hypoinsulinemia, lung cancer, rectal cancer, melanoma, stomach cancer, and esophageal cancer.

IT 604019-94-5P

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; human PRO polypeptides, polynucleotides, and antibodies for agonist/antagonist screening and diagnosis and treatment of cartilage diseases, diabetes mellitus and cancers)

RN 604019-94-5 CAPLUS

CN Protein PRO3435 (human clone DNA85066-2534) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 604019-94-5P

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; human PRO polypeptides, polynucleotides, and antibodies for agonist/antagonist screening and diagnosis and treatment of cartilage diseases, diabetes mellitus and cancers)

RN 604019-94-5 CAPLUS

CN Protein PRO3435 (human clone DNA85066-2534) (9CI) (CA INDEX NAME)

SEQ 1 MLLLLLLEYNF PIENNCQHLK TTHTFRVKNL NPKKFSIHDQ DHKVLVLD SG
51 NLIAVPDKNY IRPEIFFALA SSLSSASAEK GSPILLGVSK GEFCLYCDKD

Prior Art Document

101 KGQSHPSLQL KKEKLMKLAA QKESARRPFI FYRAQVGSWN MLESAAHPGW
151 FICTSCNCNE PVGVTDKFEN RKHIEFSFQP VCKAEMSPSE VSD

L7 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:281945 CAPLUS

DOCUMENT NUMBER: 138:285609

TITLE: cDNA encoding CTPP transmembrane protein and their use
in diagnosis and treatment of cancer

INVENTOR(S): Lasek, Amy K. W.; Baughn, Mariah R.; Azimzai, Yalda

PATENT ASSIGNEE(S): Incyte Genomics, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 47 pp., Cont.-in-part of Appl.
No. PCT/US00/07817.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|--------------|
| US 2003068311 | A1 | 20030410 | US 2002-187657 | 20020701 |
| US 7105315 | B2 | 20060912 | | |
| WO 2000056891 | A2 | 20000928 | WO 2000-US7817 | 20000322 <-- |
| WO 2000056891 | A3 | 20010405 | | |

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2006275314 A1 20061207 US 2006-498712 20060804

PRIORITY APPLN. INFO.:

US 1999-139565P P 19990616

WO 2000-US7817 A2 20000322

US 1999-125537P P 19990322

US 2002-187657 A3 20020701

AB The invention provides a transmembrane protein that is differentially
expressed in neoplastic disorders. It also provides for the use of the
protein, a cDNA encoding the protein, and antibodies that specifically
bind the protein in various methods to diagnose, stage, treat, or monitor
the treatment of a neoplastic disorder.

IT 505104-88-1

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP
(Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino acid sequence; cDNA encoding CTPP transmembrane protein and
their use in diagnosis and treatment of cancer)

RN 505104-88-1 CAPLUS

CN Transmembrane protein (human clone 4901066CD1 gene CTPP) (9CI) (CA INDEX
NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 505104-88-1

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP
(Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino acid sequence; cDNA encoding CTPP transmembrane protein and

Prior Art Document

their use in diagnosis and treatment of cancer)

RN 505104-88-1 CAPLUS
CN Transmembrane protein (human clone 4901066CD1 gene CTTT) (9CI) (CA INDEX NAME)

SEQ 1 MTLWNGVLPF YPQPRHAAGF SVPLLIVILV FLALAASFLL ILPGIRGHSR
51 WFWLVRVLLS LFIGAEIVAV HFSAEWFVGT VNTNTSYKAF SAARVTARVG
101 LLVGLEGINI TLGTGPVHQL NETIDYNEQF TWRLKENYAA EYANALEKGL
151 PDPVLYLAEK FTPSSPCGLY HQYHLAGHYA SATLWVAFCF WLLSNVLLST
201 PAPLYGGLAL LTTGAFALFG VFALASISSV PLCPLRLGSS ALTTQYGAAP
251 WVTLATGVLC LFLGGAVVSL QYVRPSALRT LLDQSAKDCS QERGGSPILL
301 GDPLHKQAAL PDLKCITTNL

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:886449 CAPLUS

DOCUMENT NUMBER: 136:36328

TITLE: Alpha 2 macroglobulin receptors as a heat shock protein receptor and uses thereof

INVENTOR(S): Srivastava, Pramod K.

PATENT ASSIGNEE(S): University of Connecticut Health Center, USA

SOURCE: PCT Int. Appl., 236 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------------------------------------------------------|------|----------|-----------------|--------------|
| WO 2001092474 | A1 | 20011206 | WO 2001-US18041 | 20010604 <-- |
| W: AU, CA, JP | | | | |
| RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR | | | | |
| US 7186515 | B1 | 20070306 | US 2000-625137 | 20000725 |
| US 2004072993 | A1 | 20040415 | US 2000-750972 | 20001228 |
| US 7179462 | B2 | 20070220 | | |
| CA 2410736 | A1 | 20011206 | CA 2001-2410736 | 20010604 <-- |
| EP 1290140 | A1 | 20030312 | EP 2001-941889 | 20010604 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR | | | | |
| JP 2004514113 | T | 20040513 | JP 2002-500668 | 20010604 |
| PRIORITY APPLN. INFO.: | | | | |
| | | | US 2000-209095P | P 20000602 |
| | | | US 2000-625137 | A 20000725 |
| | | | US 2000-668724 | A 20000922 |
| | | | US 2000-750972 | A 20001228 |
| | | | WO 2001-US18041 | W 20010604 |

AB The present invention relates to the use of alpha (2) macroglobulin ("α2M") receptor as a heat shock protein receptor, cells that express the α2M receptor bound to an HSP, and antibodies and other mols. that bind the α2M receptor-HSP complex. The invention also relates to screening assays to identify compds. that interact with the α2M receptor, and modulate the interaction of the α2M receptor with its ligand, such as HSPs, and methods for using compns. comprising

Prior Art Document

α 2M-receptor sequences for the diagnosis and treatment of immune disorders, proliferative disorders, and infectious diseases.

IT 96880-40-9, α 2-Macroglobulin (human precursor protein moiety reduced)

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; α 2 macroglobulin receptors as heat shock protein receptor for screening antagonists or agonists and for immunotherapy of autoimmune disease, infection, proliferative disease or cancer)

RN 96880-40-9 CAPLUS

CN α 2-Macroglobulin (human precursor protein moiety reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 96880-40-9, α 2-Macroglobulin (human precursor protein moiety reduced)

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; α 2 macroglobulin receptors as heat shock protein receptor for screening antagonists or agonists and for immunotherapy of autoimmune disease, infection, proliferative disease or cancer)

RN 96880-40-9 CAPLUS

CN α 2-Macroglobulin (human precursor protein moiety reduced) (9CI) (CA INDEX NAME)

SEQ

| | | | | | |
|------|------------|------------|------------|-------------|-------------|
| 1 | MGKNKLLHPS | LVLALLVLLP | TDASVSGKPQ | YMLVPSLLH | TETTEKGCVL |
| 51 | LSYLNETHVT | SASLESVRGN | RSLFTDLEAE | NDVLHCVAFA | VPKSSSNEEV |
| 101 | MFLTQVKGK | TQEFKKRTTV | MVKNEDSLVF | VQTDKSIYKP | GQTVKFRVVS |
| 151 | MDENFHPLNE | LIPLVYIQDP | KGNRIAQWQS | FQLEGGLKQF | SFPLSSEPFQ |
| 201 | GSYKVVVQKK | SGGRTEHPFT | VEEFVLPKFE | VQVTVPKIIT | ILEEEMNVSV |
| 251 | CGLYTYGKPV | PGHVTVSICR | KYSDASDCHG | EDSQAFCEKF | SGQLNSHGCF |
| 301 | YQQVKTKVFQ | LKRKEYEMKL | HTEAQIQEEG | TVVELTGRQS | SEITRTITKL |
| 351 | SFVKVDSHFR | QGIPFFGQVR | LVDGKGVPPI | NKVIFIRGNE | ANYYSNATTD |
| 401 | EHGLVQFSIN | TTNVMGTSLT | VRVNYKDRSP | CYGYQWVSEE | HEEAHHTAYL |
| 451 | VFSPSKSFVH | LEPMSHELPC | GHTQTVQAHY | ILNGGTLLGL | KKLSFYYLIM |
| 501 | AKGGIVRTGT | HGLLVKQEDM | KGHFSISIPV | KSDIAPVARL | LIYAVLPTGD |
| 551 | VIGDSAKYVD | ENCLANKVDL | SFSPSQSLPA | SHAHLRVTAA | PQSVCALRAV |
| 601 | DQSVLLMKPD | AELSASSVYN | LLPEKDLTGF | PGPLNDQDDE | DCINRHNVIY |
| 651 | NGITYTPVSS | TNEKDMYSFL | EDMGLKAFTN | SKIRKPKMCP | QLQQYEMHGP |
| 701 | EGLRVGFYES | DVMGRGHARL | VHVEEPHTET | VRKYFPETWI | WDLVVVNSAG |
| 751 | VAEVGVTVPD | TITEWKAGAF | CLSEDAGLGI | SSTASLRAFQ | PFFVELTMPY |
| 801 | SVIRGEAFTL | KATVLNLYPK | CIRVSVQLEA | SPAFLAVPVE | KEQAPHCICA |
| 851 | NGRQTVSWAV | TPKSLGNVNF | TVSAEALESQ | ELCGTEVPSV | PEHGRKDTVI |
| 901 | KPLLVEPEGL | EKETTFNSLL | CPSGGEVSEE | LSLKLPPNVV | EESARASVSV |
| 951 | LGDILGSAMQ | NTQNLQMPY | GCGEQNMVLF | APNIYVLDYL | NETQQLTPEV |
| 1001 | KSKAIGYLNT | GYQRQLNYKH | YDGSYSTFGE | RYGRNQGNTW | LTAFVLKTFA |
| 1051 | QARAYIFIDE | AHITQALIWL | SQRQKDNCGF | RSSGSLLNNA | IKGGVEDEV |
| 1101 | LSAYITIAL | EIPLTVTHPV | VRNALFCLES | AWKTAQEGDH | GSHVYTKALL |
| 1151 | AYAFALAGNQ | DKRKEVLKSL | NEEA VKDNS | VHWERPQKPK | APVGHFYEPQ |
| 1201 | APSAEVEMTS | YVLLAYLTAQ | PAPTSDELTS | ATNIVKWITK | QONAQQGFSS |
| 1251 | TQDTVVLAHA | LSKYGAATFT | RTGKAAQVTI | QSSGTFSSKF | QVDNNRLLLL |
| 1301 | QQVSLPELPG | EYSMKVTGEG | CVYLQTSCLK | NILPEKEEFP | FALGVQTLPLQ |
| 1351 | TCDEPKAHTS | FQISLSVSYT | GSRSASNMAI | VDVKMVS GFI | PLKPTVKMLE |
| 1401 | RSNHVSRTEV | SSNHVLIYLD | KVSNQTLSLF | FTVLQDVPVR | DLKPAIVKVY |
| 1451 | DYYETDEFAI | AEYNAPCSKD | LGNA | | |

Prior Art Document

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:798427 CAPLUS

DOCUMENT NUMBER: 135:353806

TITLE: Human G protein-coupled receptor-like MOLX proteins and the nucleic acids that encode them

INVENTOR(S): Vernet, Corine A. M.; Fernandes, Elma R.; Gerlach, Valerie; Shinkets, Richard A.; Malyankar, Uriel M.; Boldog, Ferenc L.; Zerhusen, Bryan D.; Spytek, Kimberly A.; Majumder, Kumud; Tchernev, Velizar T.; Padigar, Muralidhara; Patturajan, Meera; Burgess, Catherine E.; Gangolli, Esha A.; Smithson, Glennnda; Rastelli, Luca; MacDougall, John R.; Taupier, Raymond J., Jr.; Grosse, William M.; Szekeres, Edward S., Jr.; Alsoborook, John P., II

PATENT ASSIGNEE(S): Curagen Corp., USA

SOURCE: PCT Int. Appl., 227 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|--------------|
| WO 2001081578 | A2 | 20011101 | WO 2001-US13578 | 20010426 <-- |
| WO 2001081578 | A3 | 20030313 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| CA 2407494 | A1 | 20011101 | CA 2001-2407494 | 20010426 <-- |
| EP 1309683 | A2 | 20030514 | EP 2001-928927 | 20010426 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | |
| JP 2006501801 | T | 20060119 | JP 2001-578649 | 20010426 |
| PRIORITY APPLN. INFO.: | | | US 2000-200158P | P 20000426 |
| | | | US 2000-200780P | P 20000428 |
| | | | US 2000-201006P | P 20000501 |
| | | | US 2000-201007P | P 20000501 |
| | | | US 2000-201236P | P 20000501 |
| | | | US 2000-201238P | P 20000501 |
| | | | US 2000-201474P | P 20000503 |
| | | | US 2000-201508P | P 20000503 |
| | | | US 2000-220591P | P 20000725 |
| | | | US 2000-232678P | P 20000915 |
| | | | US 2001-263217P | P 20010122 |
| | | | US 2001-265160P | P 20010130 |
| | | | US 2000-200613P | P 20000428 |
| | | | US 2000-201186P | P 20000502 |

US 2001-842758 A 20010425
WO 2001-US13578 W 20010426

AB Disclosed herein are 15 nucleic acid sequences that encode human G protein-coupled receptor-related polypeptides, designated MOL1 to MOL10b. Also disclosed are polypeptides encoded by these nucleic acid sequences, and antibodies, which immunospecifically-bind to the polypeptide, as well as derivs., variants, mutants, or fragments of the aforementioned polypeptide, polynucleotide, or antibody. Nearest neighbor sequence homologies, protein domains, tissue expression profiles, and chromosomal location are also provided. The invention further discloses therapeutic, diagnostic and research methods for diagnosis, treatment, and prevention of disorders involving any one of these novel human nucleic acids and proteins.

IT 372021-42-6

RL: ANT (Analyte); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(amino acid sequence; human G protein-coupled receptor-like MOLX proteins and the nucleic acids that encode them)

RN 372021-42-6 CAPLUS

CN Protein MOL3 (human clone 82254077.0.1 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 372023-58-0

RL: PRP (Properties)
(unclaimed sequence; human G protein-coupled receptor-like MOLX proteins and the nucleic acids that encode them)

RN 372023-58-0 CAPLUS

CN 34: PN: WO0181578 PAGE: 11-13 unclaimed sequence (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 372021-42-6

RL: ANT (Analyte); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(amino acid sequence; human G protein-coupled receptor-like MOLX proteins and the nucleic acids that encode them)

RN 372021-42-6 CAPLUS

CN Protein MOL3 (human clone 82254077.0.1 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 372023-58-0

RL: PRP (Properties)
(unclaimed sequence; human G protein-coupled receptor-like MOLX proteins and the nucleic acids that encode them)

RN 372023-58-0 CAPLUS

CN 34: PN: WO0181578 PAGE: 11-13 unclaimed sequence (9CI) (CA INDEX NAME)

SEQ 1 MVLRRRTLHP LSLLVQAAVL AETLALGTLF AFLPCELKPH GLVDCNWLFL
51 KSVPRFSAAA SCSNITRLSL ISNRIHHLHN SDFVHLSNLR QNLKWNCP
101 TGLSPLHFSC HMTIEPRTFL AMRTLEELNL SYNGITTVP LPSLVNLSL
151 SHTNIVLDA NSLAGLYSLR VLFMDGNCY KNPCTGAVKV TPGALLGLSN
201 LTHLSLKYYN LTKVPRQLPP SLEYLLVSYN LIVKLGPEDL ANLTSRLVLD
251 VGGNCRCDH APNPCIECGQ KSLHLHPETF HHLSHLEGLV LKSSSLHTLN
301 SSWFQGLVNL SVLDLSENFL YESINHTNAF QNLTRLRKLN LSFNYRKKVS
351 FARLHLASSF KNLVSLQELN MNGIFFRSLN KYTLRWLADL PKLHTLHLQM
401 NFINQAQLSI FGTFRALRFV DLSDNRISGP STLSEATPEE ADDAEQEELL
451 SADPHPAPLS TPASKNFMDR CKNFKFTMDL SPNNLVTIKP EMFVNLSRLQ

Prior Art Document

501 CLSLSHNSIA QAVNGSQFLP LTNLQVLDLS HNKLDLYHWK SFSELPQLQA
 551 LDLGYNQPF SIKGIGHNFS FVAHLSMLHS LSLAHNDIHT RVSSHLNSNS
 601 VRFLDFSGNG MGRMWDEGGL YLHFFQGLSG LLKLDLSQNN LHILRPQNLD
 651 NLPKSLKLLS LRDNYLSFFN WTSLSFLPNL EVLDLAGNQL KALTNGTLPN
 701 GTLLQKLDVS SNSIVSVVPA FFALAVELKE VNLSHNILKT VDRSWFGPIV
 751 MNLTVLDVRS NPLHCACGAA FVDLLLEVQT KVPGLANGVK CGSPGQLQGR
 801 SIFAQDLRLC LDEVLSWDCF GLSLLAVAVG MVVPILHHLC GWDVWYCFHL
 851 CLAWLPLLAR SRRSAQALPY DAFVVFDKAQ SAVADWVYNE LRVRLGRRG
 901 RRALRLCLED RDWLPGQTLF ENLWASIYGS RKTFLVLAHT DRVSGLLRST
 951 FLLAQORLLE DRKDVVVLVI LRPDAHRSRY VRLRQRLCRQ SVLFWPQQPN
 1001 GQGGFWAQLS TALTRDNRHF YNQNFRCGPT AE

L7 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:741929 CAPLUS
 DOCUMENT NUMBER: 133:317569
 TITLE: Antisense modulation of Fas-mediated signaling
 INVENTOR(S): Dean, Nicholas M.; Marcusson, Eric G.
 PATENT ASSIGNEE(S): Isis Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 116 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 324
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|--------------|
| WO 2000061150 | A1 | 20001019 | WO 2000-US9540 | 20000410 <-- |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| AU 9726244 | A | 19971106 | AU 1997-26244 | 19970624 <-- |
| AU 713740 | B2 | 19991209 | | |
| US 6232463 | B1 | 20010515 | US 1998-128508 | 19980804 <-- |
| US 6204055 | B1 | 20010320 | US 1999-290640 | 19990412 <-- |
| EP 1176965 | A1 | 20020206 | EP 2000-923209 | 20000410 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |

PRIORITY APPLN. INFO.:
 US 1999-290640 A 19990412
 AU 1993-38025 A3 19930225
 US 1997-948151 A1 19971009
 WO 2000-US9540 W 20000410

AB Compds., compns., and methods are provided for inhibiting Fas-mediated signaling. The compns. comprise antisense compds. targeted to nucleic acids encoding Fas, Fas ligand (FasL) and Fap-1. Methods of using these antisense compds. for inhibition of Fas, FasL and Fap-1 expression and for treatment of diseases, particularly autoimmune and inflammatory diseases and cancers, associated with overexpression or constitutive activation of Fas, FasL or Fap-1 are provided.

IT 154338-70-2
 RL: PRP (Properties)

Prior Art Document

(unclaimed protein sequence; antisense modulation of Fas-mediated signaling)

RN 154338-70-2 CAPLUS

CN Phosphatase, phosphoprotein (phosphotyrosine) (human KU812E cell isoenzyme 1 reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 154338-70-2

RL: PRP (Properties)

(unclaimed protein sequence; antisense modulation of Fas-mediated signaling)

RN 154338-70-2 CAPLUS

CN Phosphatase, phosphoprotein (phosphotyrosine) (human KU812E cell isoenzyme 1 reduced) (9CI) (CA INDEX NAME)

```

SEQ      1 MHVSLAEALE VRGGPLQEEE IWAVLNQSAE SLQELFRKVS LADPAALGFI
      51 ISPWSLLLLP SGSVSFTDEN ISNQDLRAFT APEVLQONQSL TSLSDVEKIH
     101 IYSLGMTLYW GADYEVPSQSQ PIKLGDLHNS ILLGMCEDVI YARVSVRTVL
     151 DACSAHIRNS NCAPSFSYVK HLVKLVLGNL SGTDLQSCNS EQKPDRSQAI
     201 RDRLRGKGLP TGRSSTSDVL DIQKPPLSHQ TFLNKGLSKS MGFLSIKDTQ
     251 DENYFKDILS DNSGREDSSEN TFSPYQFKTS GPEKKPIPGI DVLSKKKIWA
     301 SSMDLLCTAD RDFSSGETAT YRRCHPEAVT VRTSTTPRKK EARYSDGSIA
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Prior Art Document

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REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
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L7 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:675103 CAPLUS

DOCUMENT NUMBER: 129:286410

TITLE: Hormone/lytic peptides and therapeutic use in
 controlling cancer, viral infection, and autoimmune
 diseases and in inducing sterility

INVENTOR(S): Enright, Frederick M.; Jaynes, Jesse M.; Hansel,
 William; Koonce, Kenneth L.; McCann, Samuel M.; Yu,
 Wen H.; Melrose, Patricia A.; Foil, Lane D.; Elzer,
 Philip H.

PATENT ASSIGNEE(S): Board of Supervisors of Louisiana State University and
 Agricultural and Mechanical College, USA

SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|--------------|
| WO 9842365 | A1 | 19981001 | WO 1998-US6114 | 19980327 <-- |
| W: CA, JP, US, US, US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| CA 2283630 | A1 | 19981001 | CA 1998-2283630 | 19980327 <-- |
| EP 975354 | A1 | 20000202 | EP 1998-913218 | 19980327 <-- |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| JP 2000514836 | T | 20001107 | JP 1998-546026 | 19980327 <-- |
| CA 2302392 | A1 | 19990311 | CA 1998-2302392 | 19980901 <-- |
| WO 9911282 | A1 | 19990311 | WO 1998-US18117 | 19980901 <-- |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
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| AU 9892138 | A | 19990322 | AU 1998-92138 | 19980901 <-- |
| JP 2001514231 | T | 20010911 | JP 2000-508384 | 19980901 <-- |
| US 6635740 | B1 | 20031021 | US 1999-381879 | 19990924 |
| US 6680058 | B1 | 20040120 | US 2000-486143 | 20000222 |
| US 2004018967 | A1 | 20040129 | US 2003-617561 | 20030711 |
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| | | | US 1997-869153 | A2 19970604 |

Prior Art Document

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| US 1997-57456P | P 19970903 |
| US 1997-92112P | P 19970604 |
| WO 1998-US6114 | W 19980327 |
| WO 1998-US18117 | W 19980901 |
| US 1999-381879 | A1 19990924 |

AB Amphipathic lytic peptides are ideally suited to use in a ligand/cytotoxin combination to specifically inhibit cells that are driven by or are dependent upon a specific ligand interaction; for example, to induce sterility or long-term contraception, or to attack tumor cells, or to selectively lyse virally-infected cells, or to attack lymphocytes responsible for autoimmune diseases. The peptides act directly on cell membranes, and need not be internalized. Administering a combination of gonadotropin-releasing hormone (GnRH) (or a GnRH agonist) and a membrane-active lytic peptide produces long-term contraception or sterilization in animals in vivo. Administering in vivo a combination of a ligand and a membrane-active lytic peptide kills cells with a receptor for the ligand. The compds. are relatively small, and are not antigenic. Lysis of gonadotropes has been observed to be very rapid (on the order of ten minutes). Lysis of tumor cells is rapid. The two components -the ligand and the lytic peptide- may optionally be administered as a fusion peptide, or they may be administered sep., with the ligand administered slightly before the lytic peptide, to activate cells with receptors for the ligand, and thereby make those cells susceptible to lysis by the lytic peptide. The compds. may be used in gene therapy to treat malignant or non-malignant tumors, and other diseases caused by clones or populations of "normal" host cells bearing specific receptors (such as lymphocytes), because genes encoding a lytic peptide or encoding a lytic peptide/peptide hormone fusion may readily be inserted into hematopoietic stem cells or myeloid precursor cells.

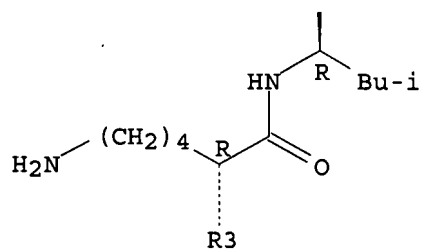
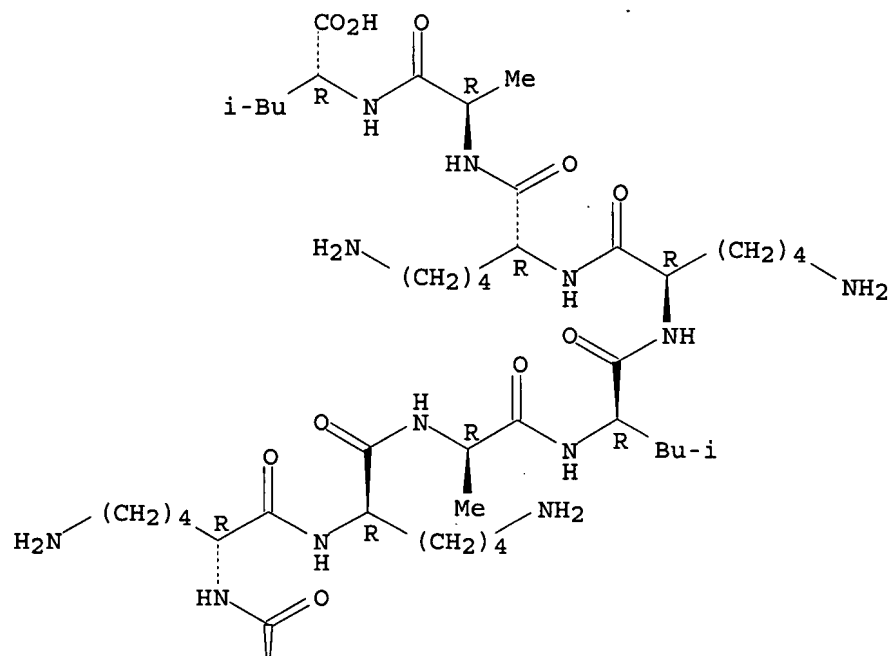
IT 214061-23-1

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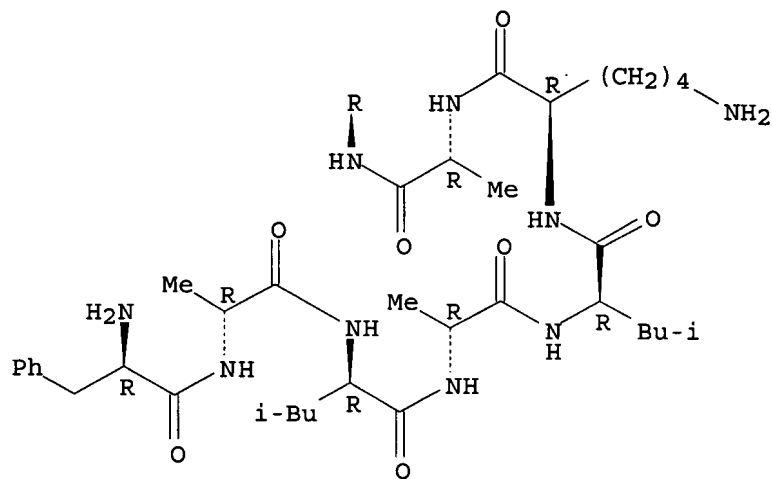
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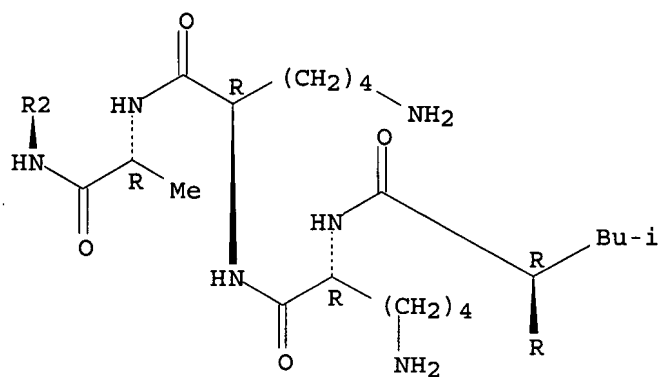
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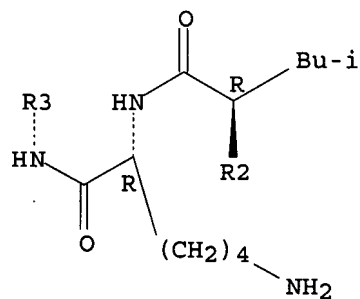
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PAGE 4-A



PAGE 5-A



IT 133084-63-6 214142-46-8 214142-48-0
214142-49-1 214208-15-8

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Prior Art Document

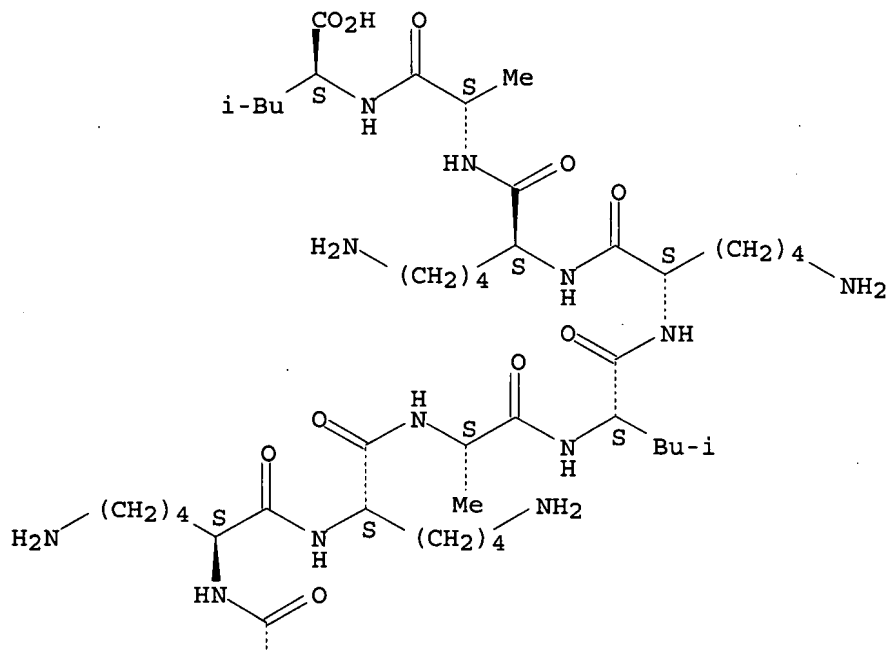
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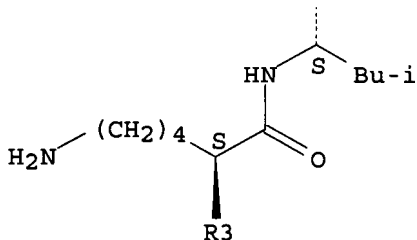
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INDEX NAME)

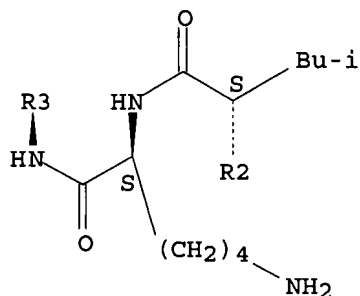
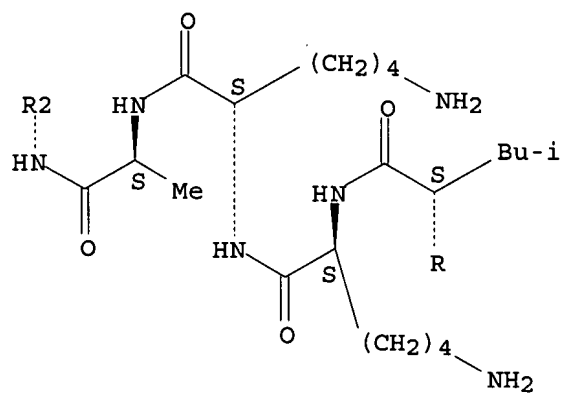
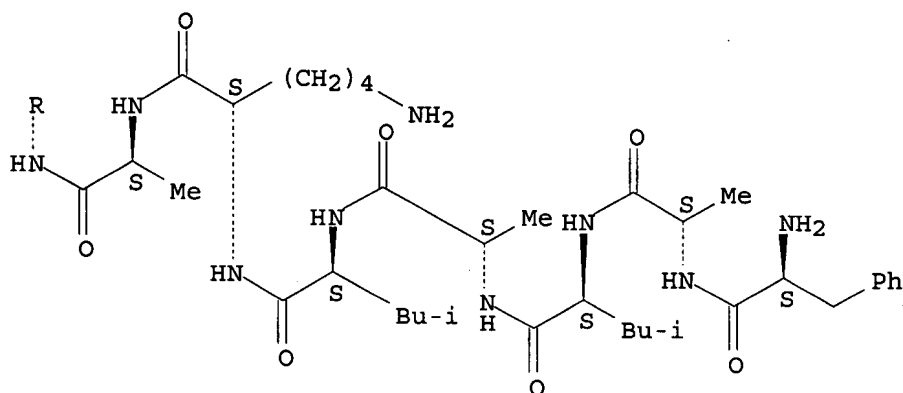
Absolute stereochemistry.

PAGE 1-A



PAGE 2-A





RN 214142-46-8 CAPLUS

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Prior Art Document

alanyl- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 214142-48-0 CAPLUS

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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 214142-49-1 CAPLUS

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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 214208-15-8 CAPLUS

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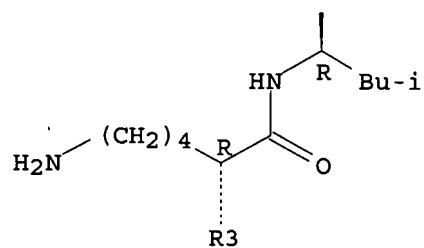
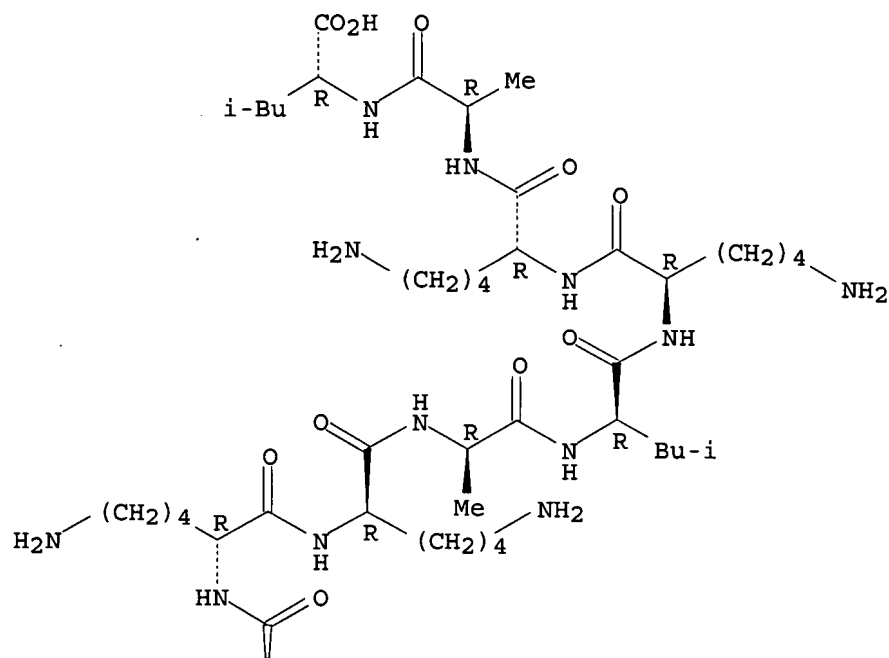
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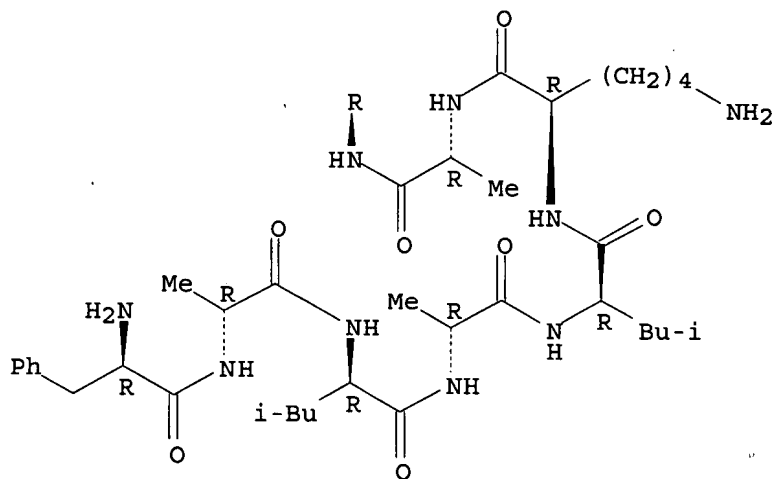
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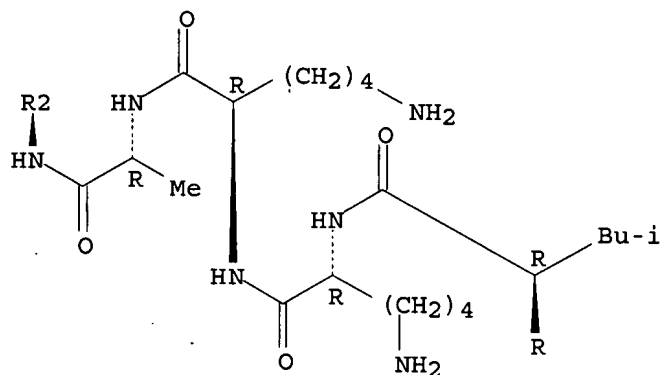
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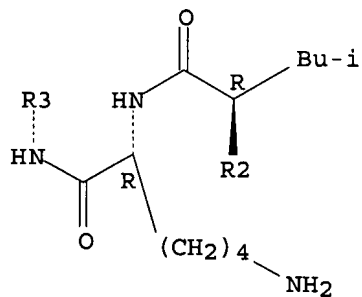
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PAGE 4-A



PAGE 5-A



IT 133084-63-6 214142-46-8 214142-48-0
214142-49-1 214208-15-8

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

Prior Art Document

(hormone/lytic peptides and therapeutic use in controlling cancer,
viral infection, and autoimmune diseases and inducing sterility)

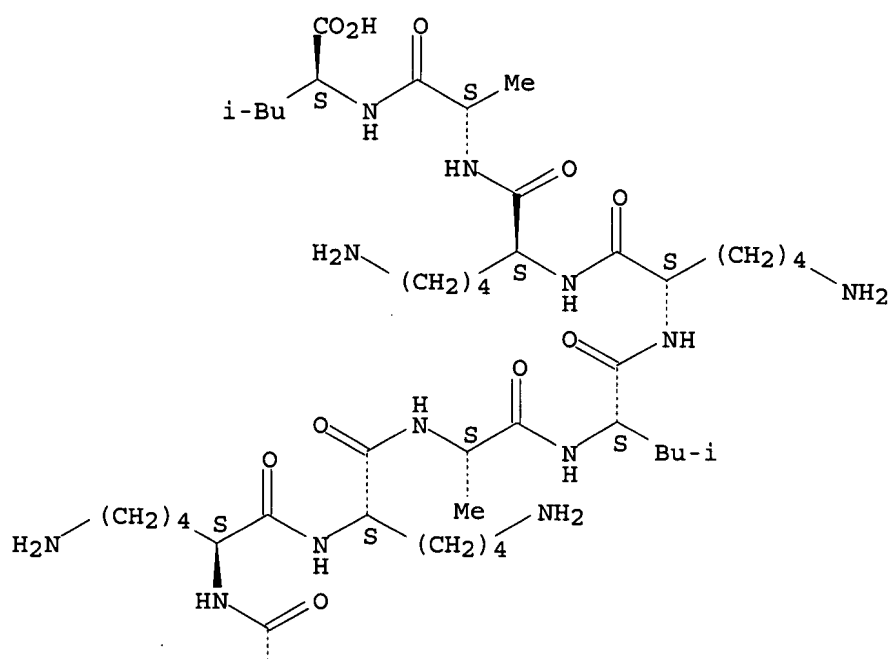
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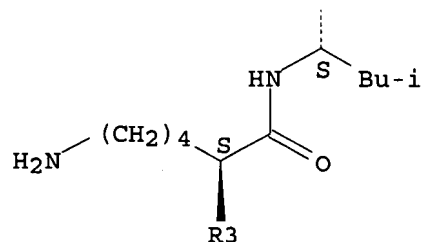
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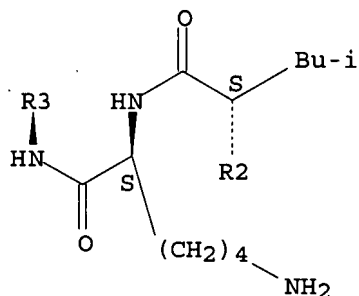
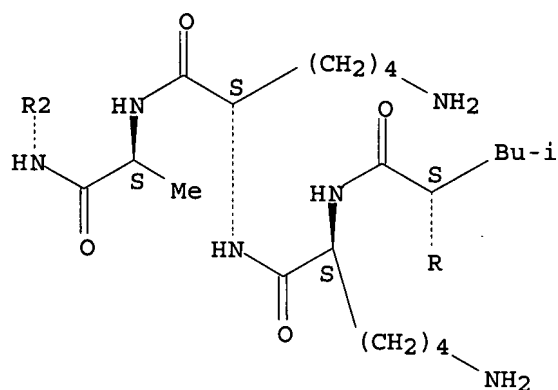
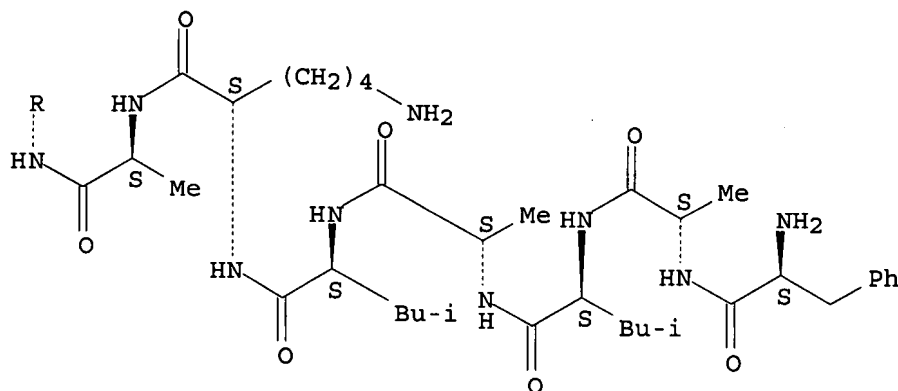
Absolute stereochemistry.

PAGE 1-A



PAGE 2-A





RN 214142-46-8 CAPLUS

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Prior Art Document

alanyl- (9CI) (CA INDEX NAME)

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RN 214142-48-0 CAPLUS

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RN 214142-49-1 CAPLUS

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RN 214208-15-8 CAPLUS

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SEQ 1 FALALKALKK ALKKLKKALK KALSYAVALS CQCALCRR

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:672481 CAPLUS

DOCUMENT NUMBER: 129:293890

TITLE: Ligand/lytic peptide compositions and methods of use

INVENTOR(S): Enright, Frederick M.; Jaynes, Jesse M.; Hansel, William B.; Koonce, Kenneth L.; Foil, Lane D.

PATENT ASSIGNEE(S): Demeter Biotechnologies, Ltd., USA; Louisiana State University and Agricultural and Mechanical College

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

Prior Art Document

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| WO 9842364 | A1 | 19981001 | WO 1998-US6013 | 19980326 <-- |
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| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| AU 9892138 | A | 19990322 | AU 1998-92138 | 19980901 <-- |
| JP 2001514231 | T | 20010911 | JP 2000-508384 | 19980901 <-- |
| US 6680058 | B1 | 20040120 | US 2000-486143 | 20000222 |
| PRIORITY APPLN. INFO.: | | | US 1997-41009P | P 19970327 |
| | | | US 1997-869153 | A 19970604 |
| | | | US 1997-57456P | P 19970903 |
| | | | WO 1998-US6013 | W 19980326 |
| | | | WO 1998-US18117 | W 19980901 |

AB Amphipathic lytic peptides are ideally suited to use in a ligand/cytotoxin combination to specifically inhibit cells that are driven by or are dependent upon a specific ligand interaction; for example, to induce sterility or long-term contraception, or to attack tumor cells, or to selectively lyse virally-infected cells, or to attack lymphocytes responsible for autoimmune diseases. The peptides act directly on cell membranes, and need not be internalized. Administering a combination of gonadotropin-releasing hormone (GnRH) (or a GnRH agonist) and a membrane-active lytic peptide produces long-term contraception or sterilization in animals in vivo. Administering in vivo a combination of a ligand and a membrane-active lytic peptide kills cells with a receptor for the ligand. The compds. are relatively small, and are not antigenic. Lysis of gonadotropes has been observed to be very rapid (on the order of ten minutes). Lysis of tumor cells is rapid. The two components - the ligand and the lytic peptide - may optionally be administered as a fusion peptide, or they may be administered sep., with the ligand administered slightly before the lytic peptide, to activate cells with receptors for the ligand, and thereby make those cells susceptible to lysis by the lytic peptide. The compds. may be used in gene therapy to treat malignant or non-malignant tumors, and other diseases caused by clones or populations of "normal" host cells bearing specific receptors (such as lymphocytes), because genes encoding a lytic peptide or encoding a lytic peptide/peptide

Prior Art Document

hormone fusion may readily be inserted into hematopoietic stem cells or myeloid precursor cells.

IT 133084-63-6, Hecate

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

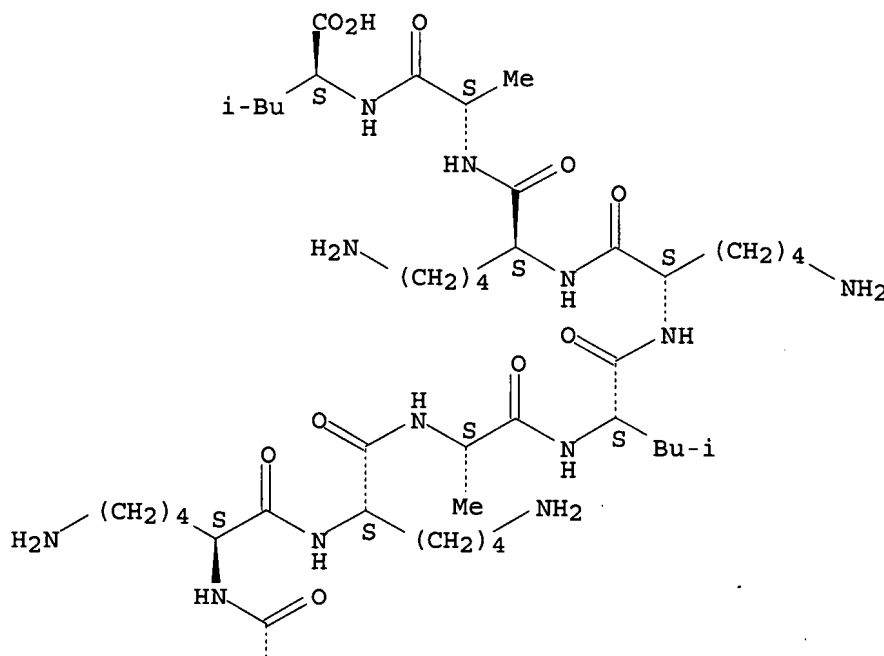
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RN 133084-63-6 CAPLUS

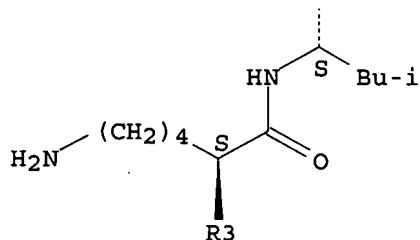
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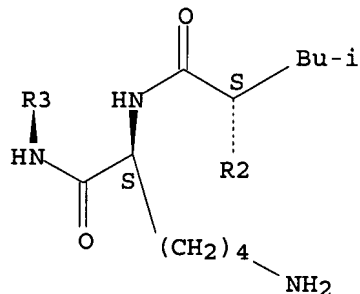
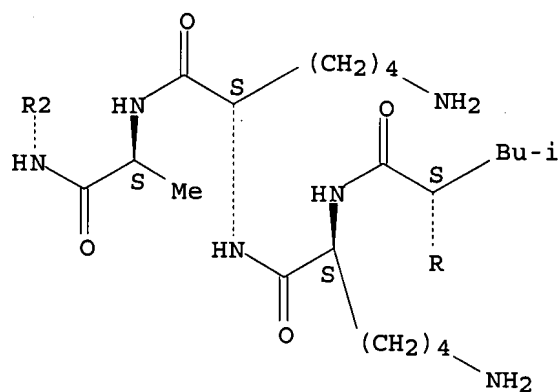
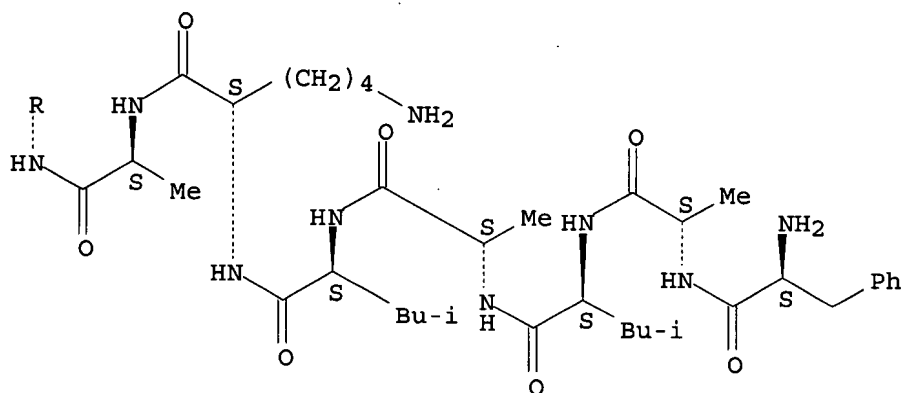
Absolute stereochemistry.

PAGE 1-A



PAGE 2-A





IT 214142-46-8 214142-48-0

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (ligand/lytic peptide comps: for contraceptive and

Prior Art Document

therapeutic use)

RN 214142-46-8 CAPLUS

CN L-Leucine, L-glutaminyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosylglycyl-L-leucyl-L-arginyl-L-prolylglycyl-L-phenylalanyl-L-alanyl-L-leucyl-L-alanyl-L-leucyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 214142-48-0 CAPLUS

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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 133084-63-6, Hecate

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

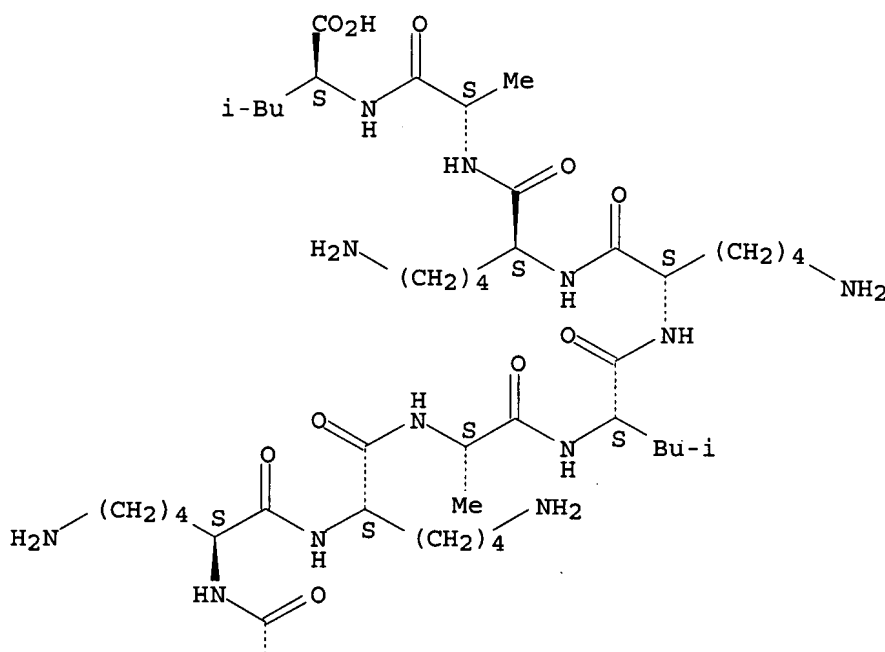
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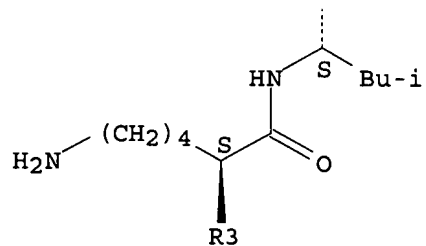
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Absolute stereochemistry.

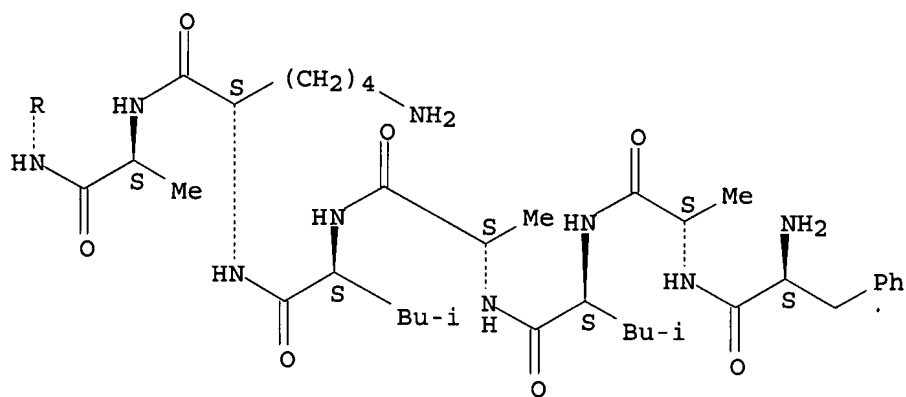
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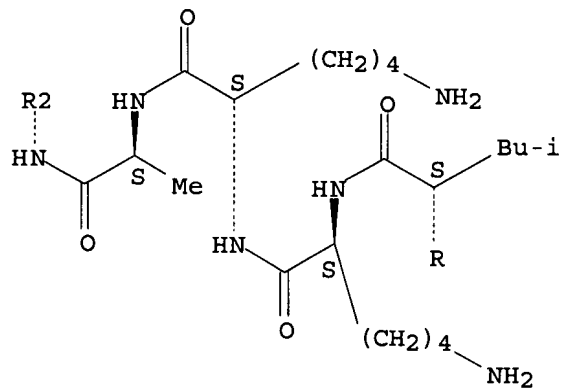
PAGE 2-A

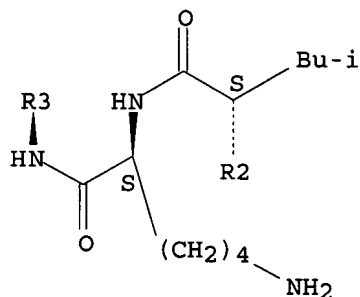


PAGE 3-A



PAGE 4-A





IT 214142-46-8 214142-48-0

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (ligand/lytic peptide compns. for contraceptive and therapeutic use)

RN 214142-46-8 CAPLUS

CN L-Leucine, L-glutaminyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosylglycyl-L-leucyl-L-arginyl-L-prolylglycyl-L-phenylalanyl-L-alanyl-L-leucyl-L-alanyl-L-leucyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl- (9CI) (CA INDEX NAME)

SEQ 1 QHWSYGLRPG FALALKALKK ALKKLKKALK KAL

RN 214142-48-0 CAPLUS

CN Glycine, L-phenylalanyl-L-alanyl-L-leucyl-L-alanyl-L-leucyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-glutaminyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosylglycyl-L-leucyl-L-arginyl-L-prolyl- (9CI) (CA INDEX NAME)

SEQ 1 FALALKALKK ALKKLKKALK KALQHWSYGL RPG

REFERENCE COUNT:

2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> fil reg; d ide 1-2

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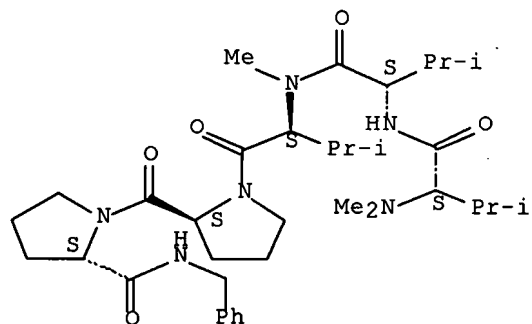
<http://www.cas.org/ONLINE/UG/regprops.html>

u9 **L19** ANSWER 1 OF 2 REGISTRY COPYRIGHT 2007 ACS on STN
RN 172837-41-1 REGISTRY
ED Entered STN: 01 Feb 1996
CN L-Prolinamide, N,N-dimethyl-L-valyl-L-valyl-N-methyl-L-valyl-L-prolyl-N-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)
OTHER NAMES:
CN **Cemadotin hydrochloride**
FS PROTEIN SEQUENCE; STEREOSEARCH
MF C35 H56 N6 O5 . Cl H
SR CA
LC STN Files: CA, CAPLUS, CASREACT, IMSRESEARCH, TOXCENTER, USPATFULL
CRN (159776-69-9)

Cemadotin

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry. Rotation (-).



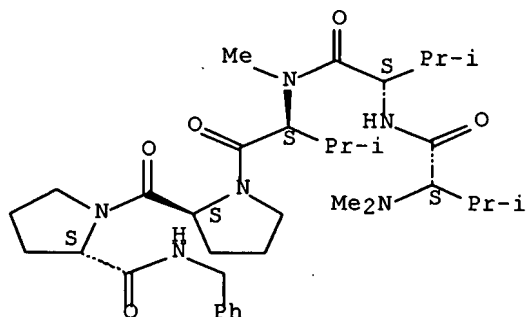
● HCl

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2007 ACS on STN
RN 159776-69-9 REGISTRY
ED Entered STN: 23 Dec 1994
CN L-Prolinamide, N,N-dimethyl-L-valyl-L-valyl-N-methyl-L-valyl-L-prolyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN **Cemadotin**
CN LU 103793
FS PROTEIN SEQUENCE; STEREOSEARCH
MF C35 H56 N6 O5
CI COM
SR World Health Organization (WHO)
LC STN Files: ADISINSIGHT, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, DDFU, DRUGU, EMBASE, IMSDRUGNEWS, IMSRESEARCH, IPA, PHAR, PROMT, PROUSDDR, RTECS*, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

27 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
28 REFERENCES IN FILE CAPLUS (1907 TO DATE)

STRUCTURE AND SEQUENCE SEARCHES

=> => fil reg; d stat que 14; d stat que 113; d que 111; d que 148
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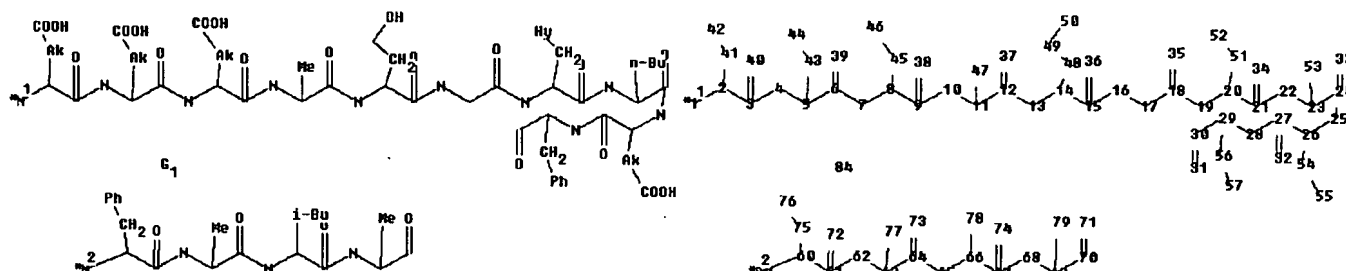
<http://www.cas.org/ONLINE/UG/regprops.html>

L1 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

Uploading L1.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
 45 46 47 48 49 50 51 52 53 54 55 56 57 60 61 62 63 64 65 66 67
 68 69 70 71 72 73 74 75 76 77 78 79 80 84

chain bonds :

1-2 2-3 2-41 3-4 3-40 4-5 5-6 5-43 6-7 6-39 7-8 8-9 8-45 9-10 9-38
 10-11 11-12 11-47 12-13 12-37 13-14 14-15 14-48 15-16 15-36 16-17 17-18
 18-19 18-35 19-20 20-21 20-51 21-22 21-34 22-23 23-24 23-53 24-33 24-25
 25-26 26-27 26-54 27-28 27-32 28-29 29-30 29-56 30-31 41-42 43-44 45-46

48-49 49-50 51-52 54-55 56-57 60-75 60-61 60-80 61-62 61-72 62-63 63-64
 63-77 64-65 64-73 65-66 66-67 66-78 67-68 67-74 68-69 69-70 69-79 70-71
 75-76

exact/norm bonds :

1-2 2-41 3-4 3-40 4-5 5-43 6-7 6-39 7-8 8-45 9-10 9-38 10-11 12-13
 12-37 13-14 15-16 15-36 16-17 18-19 18-35 19-20 21-22 21-34 22-23 24-33
 24-25 25-26 26-54 27-28 27-32 28-29 30-31 41-42 43-44 45-46 49-50 51-52
 54-55 60-80 61-62 61-72 62-63 64-65 64-73 65-66 67-68 67-74 68-69 70-71

exact bonds :

2-3 5-6 8-9 11-12 11-47 14-15 14-48 17-18 20-21 20-51 23-24 23-53 26-27
 29-30 29-56 48-49 56-57 60-75 60-61 63-64 63-77 66-67 66-78 69-70 69-79
 75-76

G1:[*1],[*2]

Connectivity :

41:2 E exact RC ring/chain 43:2 E exact RC ring/chain 45:2 E exact RC ring/chain
 54:2 E exact RC ring/chain

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS
 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS
 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS
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 76:CLASS 77:CLASS 78:CLASS 79:CLASS 80:CLASS 84:CLASS

Generic attributes :

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Saturation : Unsaturated
 Number of Carbon Atoms : 7 or more
 Number of Hetero Atoms : Exactly 1
 Type of Ring System : Polycyclic

Element Count :

Node 52: Limited

C,C8

N,N1

L4 102 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 526064 ITERATIONS
 SEARCH TIME: 00.00.27

102 ANSWERS

L13 31235 SEA FILE=REGISTRY ABB=ON FALA/SQSP

L11 76 SEA FILE=REGISTRY ABB=ON EEEAYGW'NLE'DF/SQSFP

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L1          STR
L4          102 SEA FILE=REGISTRY SSS FUL L1
L6          STR
L10         102 SEA FILE=REGISTRY SUB=L4 SSS FUL L6
L11         76 SEA FILE=REGISTRY ABB=ON   EEEAYGW'NLE'DF/SQSFP
L12        1918813 SEA FILE=REGISTRY ABB=ON FALA/SQSFP
L48         0 SEA FILE=REGISTRY ABB=ON   L11 AND (L12 OR L10)
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INVENTOR SEARCH

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 L25 (165) SEA FILE=CAPLUS ABB=ON MICHEJDA C?/AU
 L26 (32) SEA FILE=CAPLUS ABB=ON DYBA M?/AU
 L27 (5) SEA FILE=CAPLUS ABB=ON COHRAN C?/AU
 L28 2 SEA FILE=CAPLUS ABB=ON (L27 OR L26) AND (L24 OR L25)

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 L11 76 SEA FILE=REGISTRY ABB=ON EEEAYGW'NLE'DF/SQSFP
 L13 31235 SEA FILE=REGISTRY ABB=ON FALA/SQSP
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 L53 32 SEA FILE=CAPLUS ABB=ON DYBA M?/AU
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 L55 3 SEA FILE=CAPLUS ABB=ON (L51 OR L52 OR L53 OR L54) AND (L44 OR L17 OR L15) *see ID or linker*

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=> d ibib ed abs hitstr 1-4

L56 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:383220 CAPLUS Full-text
 DOCUMENT NUMBER: 143:70991

TITLE: Transmembrane Inhibitors of P-Glycoprotein, an ABC
Transporter

AUTHOR(S): **Tarasova, Nadya I.**; Seth, Rishi; Tarasov,
Sergey G.; Kosakowska-Cholody, Teresa; Hrycyna,
Christine A.; Gottesman, Michael M.; **Michejda,
Christopher J.**

CORPORATE SOURCE: Molecular Aspects of Drug Design Section, Structural
Biophysics Laboratory, Frederick, MD, 21702, USA

SOURCE: Journal of Medicinal Chemistry (2005), 48(11),
3768-3775
CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 143:70991

ED Entered STN: 05 May 2005

AB Drug resistance mediated by ABC transporters such as P-glycoprotein (P-gp) continues to be a major impediment to effective cancer chemotherapy. We have developed a panel of highly specific peptide inhibitors of P-gp based on the structure of the transmembrane domains of the transporter. These peptides are thought to exert their inhibitory action by disrupting the proper assembly of P-gp. A novel 96-well-plate assay based on the efflux of fluorescent P-gp substrate DiOC2 (3-ethyl-2-[3-(3-ethyl-2(3H)-benzoxazolylidene)-1-propenyl]benzoxazoliumiodide) was developed and used for structure-functional characterization of transporter inhibitors. The studies strongly suggest that potent and selective inhibitors of ABC transporters can now be developed solely on the basis of the primary structures of the target proteins. The inhibition of P-gp with transmembrane peptides was shown to be chirality-independent. A 25-residue long retroinverso D-analog of transmembrane domain 5 inhibited the efflux of the fluorescent P-gp substrate with an IC₅₀ of 500 nM. Transmembrane peptides effectively sensitized resistant cancer cells to doxorubicin in vitro without demonstrating any cell toxicity of their own. The newly synthesized P-gp antagonists appear to be promising nontoxic drug resistance inhibitors that merit further development.

IT **855444-60-9**

RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

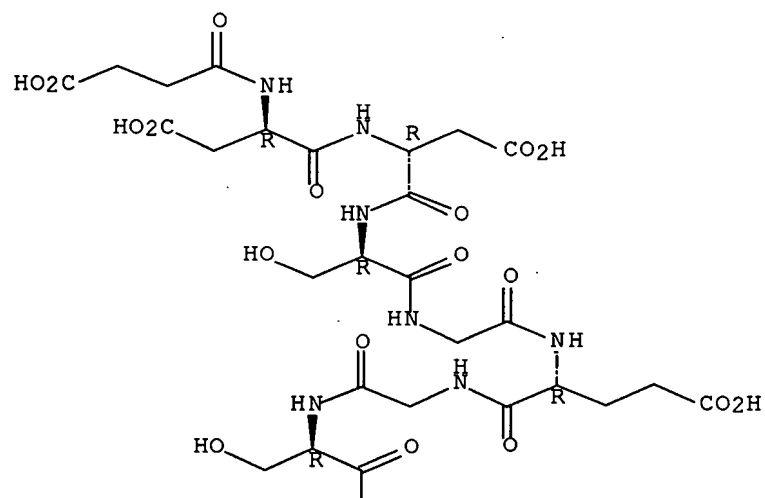
(structure-activity relationship of transmembrane inhibitors of P-glycoprotein, an ABC transporter in HCT115 human colon carcinoma cells)

RN 855444-60-9 CAPLUS

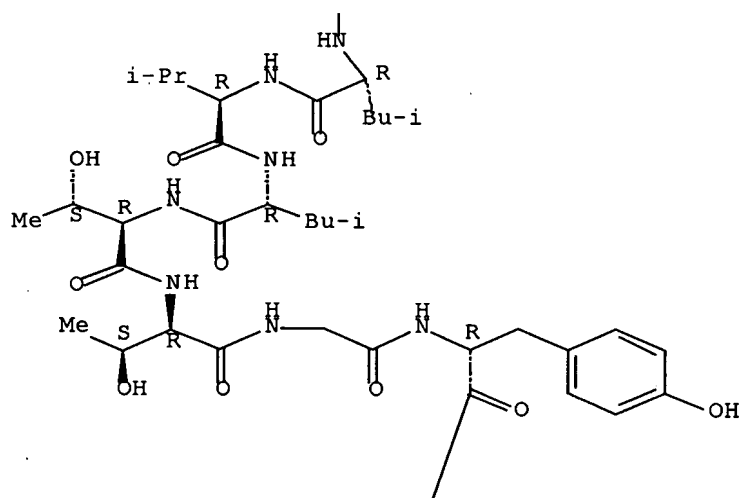
CN D-Leucine, N-(3-carboxy-1-oxopropyl)-D- α -aspartyl-D- α -aspartyl-D-serylglycyl-D- α -glutamylglycyl-D-seryl-D-leucyl-D-valyl-D-leucyl-D-threonyl-D-threonylglycyl-D-tyrosyl-D-tryptophyl-D-phenylalanyl-D-alanyl-D-leucyl-D-alanyl-D-tyrosyl-D-seryl-D-alanyl-D-tyrosyl-D-isoleucyl- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

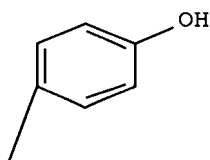
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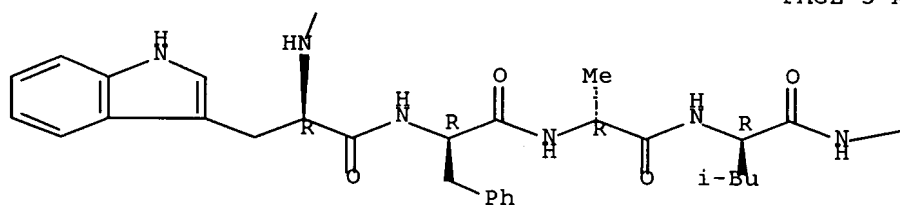
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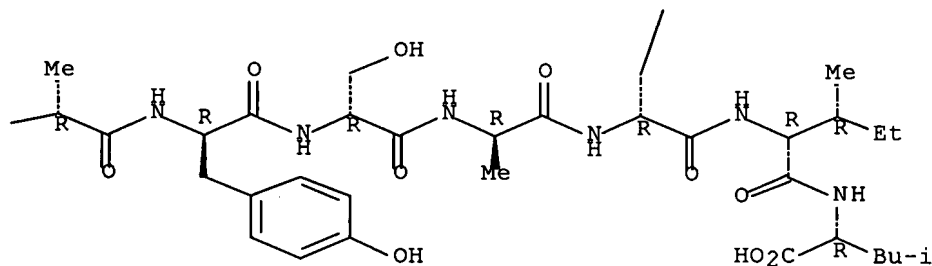
PAGE 2-B



PAGE 3-A



PAGE 3-B



REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L56 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:514451 CAPLUS Full-text
 DOCUMENT NUMBER: 141:33239
 TITLE: Small molecule toxins targeting tumor receptors
 AUTHOR(S): **Dyba, Marcin; Tarasova, Nadya I.; Michejda, Christopher J.**
 CORPORATE SOURCE: Molecular Aspects of Drug Design Section, Structural

Biophysics Laboratory, NCI-Frederick, Frederick, MD,
21702, USA

SOURCE: Current Pharmaceutical Design (2004), 10(19),
2311-2334
CODEN: CPDEFP; ISSN: 1381-6128

PUBLISHER: Bentham Science Publishers Ltd.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

ED Entered STN: 25 Jun 2004

AB A review. Targeting toxic therapeutics to tumors through receptors overexpressed on the surface of cancer cells can reduce systemic toxicity and increase the effectiveness of the targeted compds. Small mol. targeted therapeutics have a number of advantages over toxic immunoconjugates including better tumor penetration, lack of neutralizing host immune response, and superior flexibility in selection of drug components with optimal specificity, potency, and stability in circulation. Three major components of the targeted drug, the toxic warhead, tumor-specific ligand, and the linker can influence the properties of each other and thus have to be optimized for each system. All receptor-targeted drugs are delivered inside the cells through endocytosis and undergo processing liberating the toxins in endosomes and lysosomes. Common delivery route defines a number of general requirements for each drug component. The review addresses currently known possible receptor targets and their ligands along with toxins that were used and that have a potential to be successfully applied in tumor targeting. Linkers that are stable in circulation, but efficiently cleaved in lysosomes constitute an essential component of receptor-targeted drugs and are evaluated in greater detail.

REFERENCE COUNT: 249 THERE ARE 249 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L56 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:697040 CAPLUS Full-text

DOCUMENT NUMBER: 139:231000

TITLE: Conjugates of ligand, linker and cytotoxic agent, related compositions, and methods for their use

INVENTOR(S): Tarasova, Nadya I.; Michejda, Christopher J.; Dyba, Marcin; Cohran, Carolyn

PATENT ASSIGNEE(S): The Government of the United States of America, Represented by the Secretary Department of Health and Human Services, USA

SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

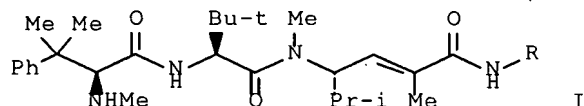
PATENT INFORMATION:

Applicants
PCT.

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| WO 2003072754 | A2 | 20030904 | WO 2003-US6344 | 20030227 |
| WO 2003072754 | A3 | 20050331 | | |
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| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, | | | |

FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 AU 2003224644 A1 20030909 AU 2003-224644 20030227
 EP 1531846 A2 20050525 EP 2003-721323 20030227
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 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 US 2005171014 A1 20050804 US 2003-505239 20030227
 PRIORITY APPLN. INFO.: US 2002-360543P P 20020227 } Provisional
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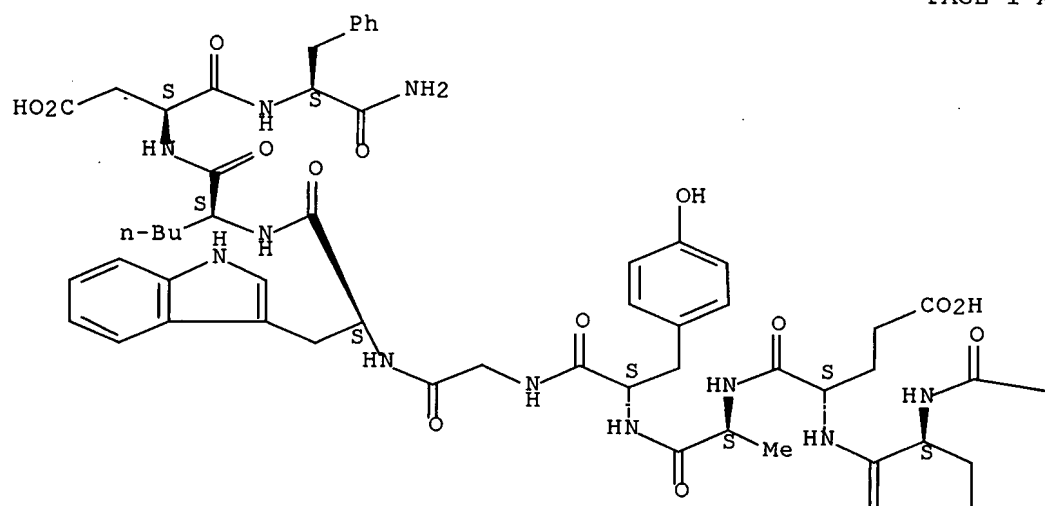
ED Entered STN: 05 Sep 2003
 GI



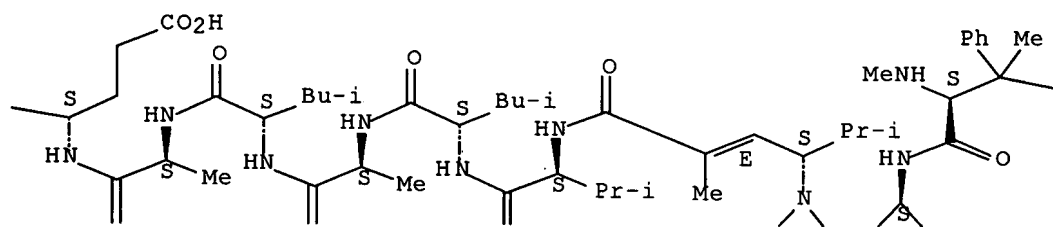
- AB The invention discloses conjugates comprising a ligand, a linker, and a cytotoxic agent, in which the linker is a peptide fragment FALA, VLALA, ALAL, ALALA, ChaLALA, ChaChaLAL, NalChaLAL or NallALA. Compns. containing the conjugates deliver a cytotoxic agent in a cell-specific manner for treating cancer in a mammal. Thus, peptide derivative I (R = VLALAEEDAYGW-Nle-DF-NH₂) was prepared by the solid-phase method and showed relatively low cytotoxic activity (IC₅₀ = 1 μM when tested on gastrin receptor-expressing 3T3 cells).
- IT **591750-18-4P 591750-24-2P**
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (conjugates of ligand, linker and cytotoxic agent, related compns., and methods for their use)
- RN 591750-18-4 CAPLUS
- CN L-Phenylalaninamide; (N,β,β-trimethyl-L-phenylalanyl-3-methyl-L-valyl-(2E,4S)-2,5-dimethyl-4-(methylamino)-2-hexenoyl)-L-valyl-L-leucyl-L-alanyl-L-leucyl-L-alanyl-L-α-glutamyl-L-α-glutamyl-L-α-glutamyl-L-alanyl-L-tyrosylglycyl-L-tryptophyl-L-norleucyl-L-α-aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

PAGE 1-A

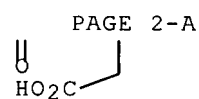


PAGE 1-B



PAGE 1-C

—Me



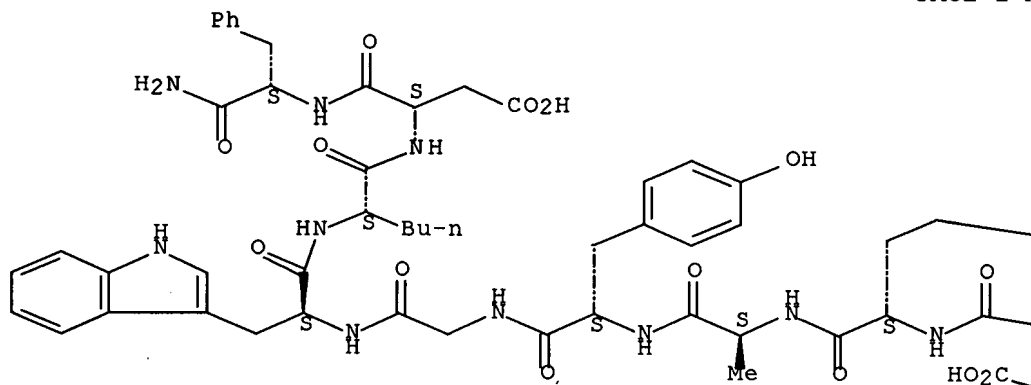
RN 591750-24-2 CAPLUS

CN L-Phenylalaninamide, N,β,β-trimethyl-L-phenylalanyl-3-methyl-L-valyl-(2E,4S)-2,5-dimethyl-4-(methylamino)-2-hexenoyl-3-cyclohexyl-L-alanyl-L-leucyl-L-alanyl-L-leucyl-L-alanyl-L-α-glutamyl-L-α-glutamyl-L-α-glutamyl-L-alanyl-L-tyrosylglycyl-L-tryptophyl-L-norleucyl-L-α-aspartyl- (9CI) (CA INDEX NAME)

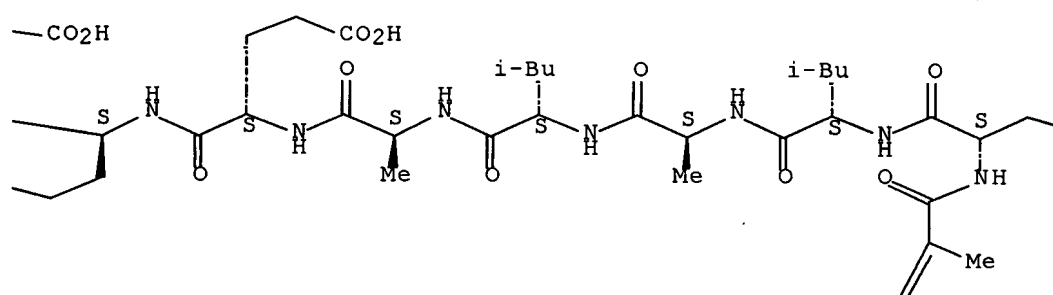
Absolute stereochemistry.

Double bond geometry as shown.

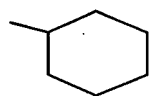
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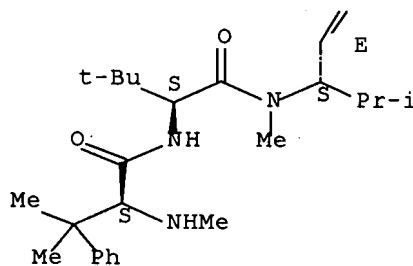
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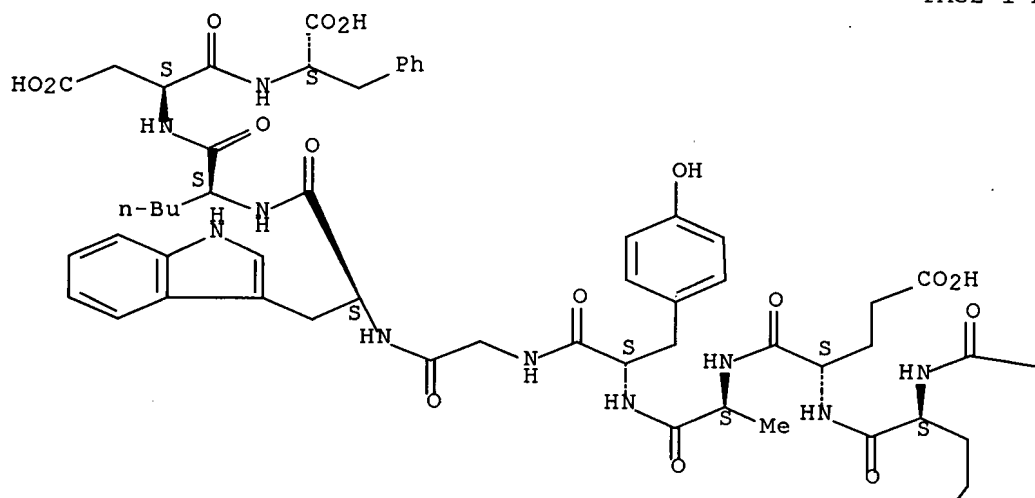
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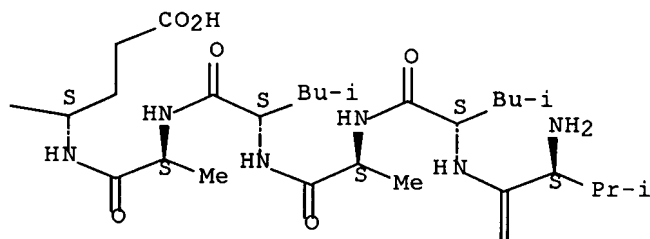
IT 591750-16-2D, protected derivative 591750-19-5D, protected derivative
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (conjugates of ligand, linker and cytotoxic agent, related compns., and methods for their use)
 RN 591750-16-2 CAPLUS
 CN L-Phenylalanine, L-valyl-L-leucyl-L-alanyl-L-leucyl-L-alanyl-L- α -glutamyl-L- α -glutamyl-L- α -glutamyl-L-alanyl-L-tyrosylglycyl-L-tryptophyl-L-norleucyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



PAGE 2-A

HO₂C

PAGE 2-B

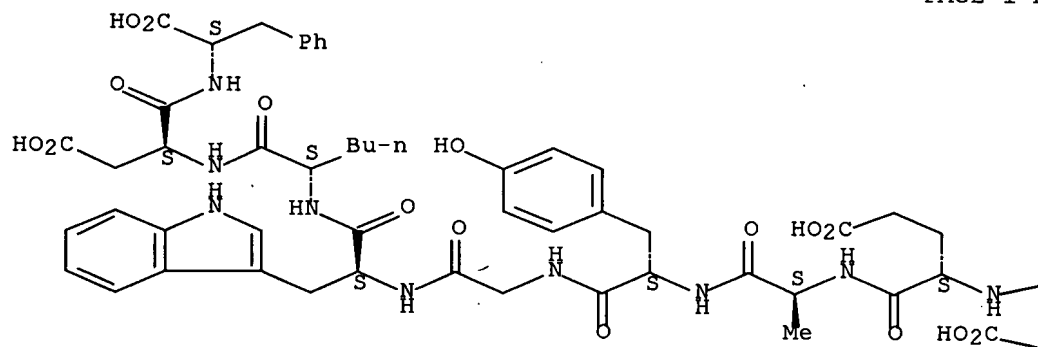
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RN 591750-19-5 CAPLUS

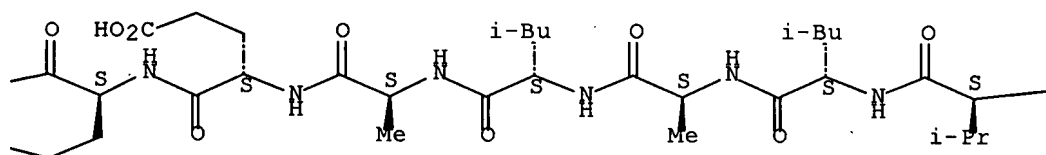
CN L-Phenylalanine, N-[(9H-fluoren-9-ylmethoxy)carbonyl]-L-valyl-L-leucyl-L-alanyl-L-leucyl-L-alanyl-L- α -glutamyl-L- α -glutamyl-L- α -glutamyl-L-alanyl-L-tyrosylglycyl-L-tryptophyl-L-norleucyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

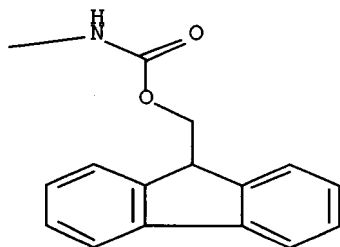
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PAGE 1-B



PAGE 1-C



IT 591750-15-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

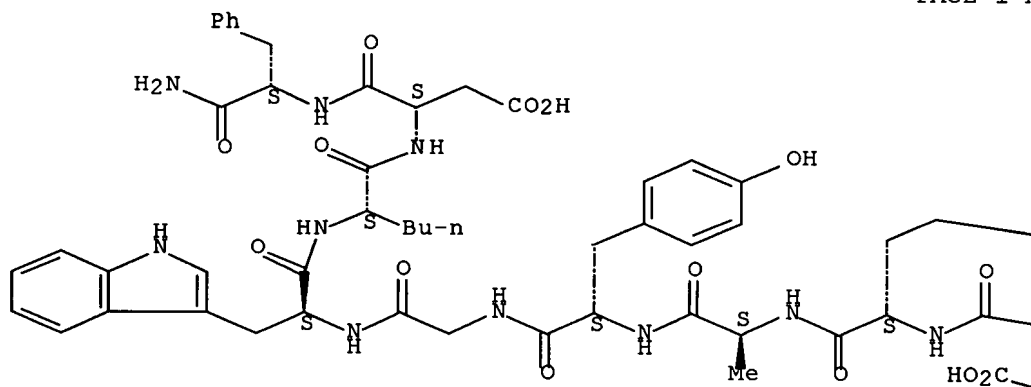
(conjugates of ligand, linker and cytotoxic agent, related compns., and methods for their use)

RN 591750-15-1 CAPLUS

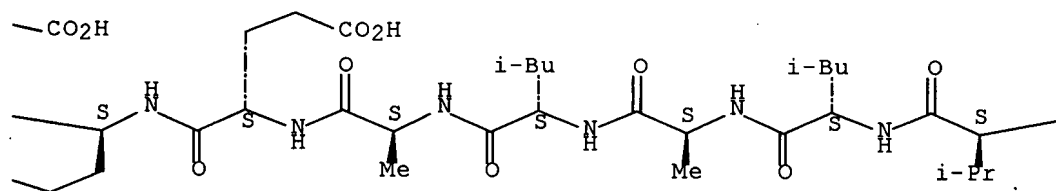
CN L-Phenylalaninamide, N,N-dimethyl-L-valyl-L-valyl-N-methyl-L-valyl-L-prolyl-L-prolyl-L-valyl-L-leucyl-L-alanyl-L-leucyl-L-alanyl-L- α -glutamyl-L- α -glutamyl-L- α -glutamyl-L-alanyl-L-tyrosylglycyl-L-tryptophyl-L-norleucyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

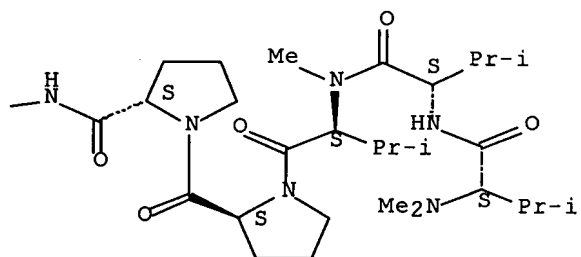
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PAGE 1-B



PAGE 1-C



IT 594846-97-6

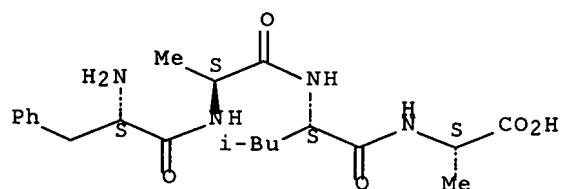
RL: PRP (Properties)

(unclaimed sequence; conjugates of ligand, linker and cytotoxic agent, related compns., and methods for their use)

RN 594846-97-6 CAPLUS

CN L-Alanine, L-phenylalanyl-L-alanyl-L-leucyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L56 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:649171 CAPLUS Full-text

DOCUMENT NUMBER: 130:20325

TITLE: Cytotoxic agents directed to peptide hormone
receptors: defining the requirements for a successful
drugAUTHOR(S): Czerwinski, Grzegorz; Tarasova, Nadya I.;
Michejda, Christopher J.CORPORATE SOURCE: Molecular Aspects of Drug Design Section,
Macromolecular Structure Laboratory, Advanced
BioScience Laboratories-Basic Research Program,
Frederick Cancer Research and Development Center,
National Cancer Institute, Frederick, MD, 21702, USA
SOURCE: Proceedings of the National Academy of Sciences of the
United States of America (1998), 95(20), 11520-11525
CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 14 Oct 1998

AB In principle, cell surface receptors that are overexpressed in tumor tissue could serve as targets for anticancer drugs attached to receptor ligands. The purpose of this paper is to identify the necessary elements for a successful receptor-targeted drug. We used the gastrin/cholecystokinin type B receptor as a model delivery system, and we report on the synthesis, trafficking, and in vitro and in vivo evaluation of heptagastrin, the C-terminal heptapeptide of gastrin, linked via an appropriate linker to a potentially cytotoxic ellipticine derivative, 1-[3-[N-(3-aminopropyl)-N-methylamino]propyl]amino-9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazole. These data, and previous work from our laboratory, show that the drug-complexed ligand is sorted to lysosomes whereas the receptor is recycled to the plasma membrane. The lysosomal processing of the ligand/drug construct depends on the linker between the ligand sequence and the cytotoxic moiety. We show that heptagastrin linked to ellipticine via a succinoyl-substituted pentapeptide, AlaLeuAlaLeuAla, is at least 103 more toxic to cholecystokinin type B receptor-pos. NIH/3T3 cells than to isogenic NIH/3T3 cells lacking the receptor. The conjugated drug eradicated all receptor-pos. tumor cells in vivo without producing any general toxicity. The data indicate that the d. of the cell surface receptor, the properties of the cytotoxic moiety, and the correct processing of the drug-conjugated ligand in lysosomes are crucial to the effectiveness of a receptor-targeted drug.

IT **216220-15-4P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

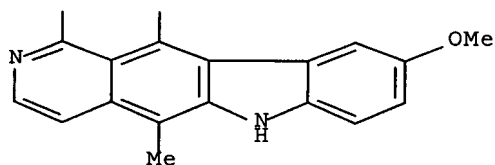
(requirements for cytotoxic agents directed to peptide hormone
receptors)

RN 216220-15-4 CAPLUS

CN 2-17-Gastrin-17 I (human), N-[[[3-[[3-[(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)amino]propyl]methylamino]propyl]amino]carbonyl]-15-L-norleucine- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 2-C



IT 134998-07-5

RL: RCT (Reactant); RACT (Reactant or reagent)

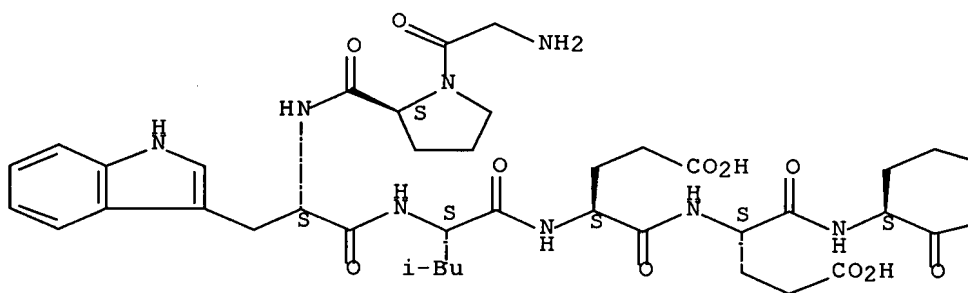
(requirements for cytotoxic agents directed to peptide hormone receptors)

RN 134998-07-5 CAPLUS

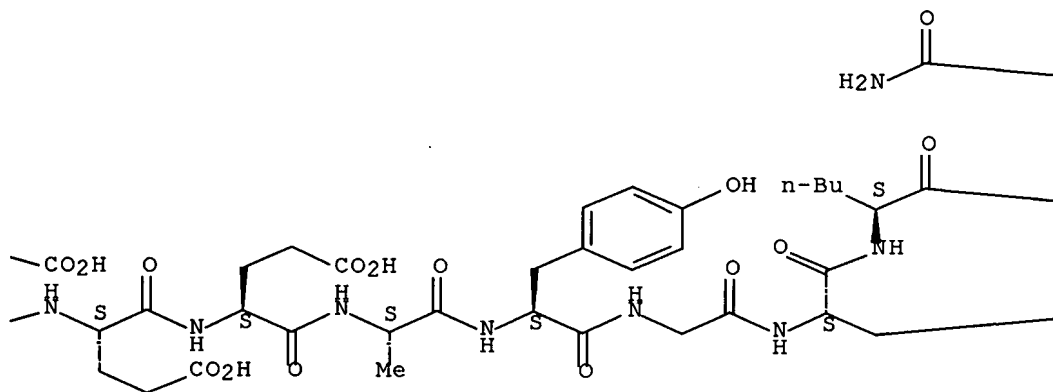
CN 19-34-Gastrin I (swine), 22-L-leucine-32-L-norleucine- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

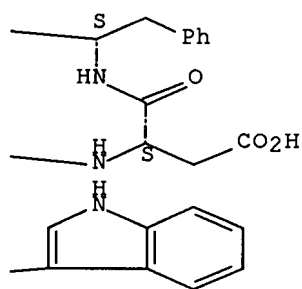
PAGE 1-A



PAGE 1-B



PAGE 1-C



REFERENCE COUNT:

43

THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCES FOR STRUCTURE/SEQUENCE SEARCH

=> fil capl; d que nos 149

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FILE COVERS 1907 - 22 Mar 2007 VOL 146 ISS 13

FILE LAST UPDATED: 21 Mar 2007 (20070321/ED)

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'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

SEQ 1 AND SEQ 20 IN SAME RECORD

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L1          STR
L4          102 SEA FILE=REGISTRY SSS FUL L1
L11         76 SEA FILE=REGISTRY ABB=ON   EEEAYGW'NLE'DF/SQSFP
L13         31235 SEA FILE=REGISTRY ABB=ON   FALA/SQSP
L15         55 SEA FILE=CAPLUS ABB=ON   L11
L17         5237 SEA FILE=CAPLUS ABB=ON   L13
L44         108 SEA FILE=CAPLUS ABB=ON   L4
L49         1 SEA FILE=CAPLUS ABB=ON   (L44 OR L17) AND L15

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=> s 149 not 156

L57 0 L49 NOT L56

=> d que nos 150

SEQ 1 OR SEQ 20 PLUS CEMADOTIN

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L1          STR
L4          102 SEA FILE=REGISTRY SSS FUL L1
L11         76 SEA FILE=REGISTRY ABB=ON   EEEAYGW'NLE'DF/SQSFP
L13         31235 SEA FILE=REGISTRY ABB=ON   FALA/SQSP
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L20         35 SEA FILE=CAPLUS ABB=ON   L19
L22         29 SEA FILE=CAPLUS ABB=ON   (CEMADOTIN# OR LU103793 OR LU 103793)/B
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L50         0 SEA FILE=CAPLUS ABB=ON   (L44 OR L17 OR L15) AND (L20 OR L22)

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=> d que 145 nos ; d que nos 146; d que nos 147

L1 STR

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 L13 31235 SEA FILE=REGISTRY ABB=ON FALA/SQSP
 L17 5237 SEA FILE=CAPLUS ABB=ON L13
 L30 121882 SEA FILE=CAPLUS ABB=ON CONJUGAT?/OBI
 L35 127191 SEA FILE=CAPLUS ABB=ON LINK?/OBI
 L44 108 SEA FILE=CAPLUS ABB=ON L4
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SEQ 1 AS LINKER WITH CYTOTOXIC AGENT

L1 STR
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 L17 5237 SEA FILE=CAPLUS ABB=ON L13
 L34 237035 SEA FILE=CAPLUS ABB=ON ANTITUMOR AGENTS+OLD/CT
 L35 127191 SEA FILE=CAPLUS ABB=ON LINK?/OBI
 L44 108 SEA FILE=CAPLUS ABB=ON L4
 L46 24 SEA FILE=CAPLUS ABB=ON (L44 OR L17) AND L34 AND L35

SEQ 1 AND (LINKER OR CONJUGATE) AND CYTOTOXIC AGENT AND LINGAND

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 L17 5237 SEA FILE=CAPLUS ABB=ON L13
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 L42 175275 SEA FILE=CAPLUS ABB=ON LIGAND#/OBI
 L44 108 SEA FILE=CAPLUS ABB=ON L4
 L47 10 SEA FILE=CAPLUS ABB=ON (L44 OR L17) AND L34 AND (L35 OR L30)
 AND L42

=> s 145,146,147 not 156

L58 35 (L45 OR L46 OR L47) NOT L56

=> d ibib ed abs hitstr hitseq 158 1

L58 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1332341 CAPLUS Full-text

DOCUMENT NUMBER: 146:95362

TITLE: Identification of genes modulating signal transduction
 by the JAK/STAT pathway by genome-wide RNAi screening
 INVENTOR(S): Boutros, Michael; Zeidler, Martin; Mueller, Patrick
 PATENT ASSIGNEE(S): Deutsches Krebsforschungszentrum Stiftung des
 Oeffentlichen Rechts, Germany; Max-Planck-Gesellschaft
 zur Foerderung der Wissenschaften e.V.

SOURCE: PCT Int. Appl., 67pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| WO 2006133931 | A2 | 20061221 | WO 2006-EP5744 | 20060614 |
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CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
 KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW,
 MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
 SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
 VC, VN, YU, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
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 EP 1734118 A1 20061220 EP 2005-12934 20050615
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 HR, LV, MK, YU
 PRIORITY APPLN. INFO.: EP 2005-12934 A 20050615
 ED Entered STN: 21 Dec 2006
 AB A reporter gene method of identifying genes involved in modulating the
 activity of the JAK/STAT signaling pathway and to the use of different
 JAK/STAT pathway components as targets for modulation of the JAK/STAT pathway
 is described. Furthermore, the present invention pertains to a pharmaceutical
 composition and to the use of different JAK/STAT pathway components and/or
 effector mols. thereof for the manufacture of such composition for the
 diagnosis, prevention or treatment of a JAK/STAT pathway associated disorder.
 A reporter gene is placed under control of a promoter regulated by the
 JAK/STAT pathway and animal or cell lines carrying the gene are established.
 Animals or cells are then exposed to siRNAs derived from a large number of
 genes and the effects of the exposure to levels and patterns of gene
 expression are analyzed. The screening of 20,000 dsRNAs corresponding to 91%
 of the Drosophila melanogaster genome is reported. The data from the screen
 were used in combination with genetic assays to confirm the roles of genes.
 IT 917518-14-0
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)
 (amino acid sequence; identification of genes modulating signal
 transduction by JAK/STAT pathway by genome-wide RNAi screening)
 RN 917518-14-0 CAPLUS
 CN Protein (human clone WO2006/133931-SEQID-82 JAK/STAT signal transduction
 pathway-regulating) (CA INDEX NAME)
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 IT 917518-14-0
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)
 (amino acid sequence; identification of genes modulating signal
 transduction by JAK/STAT pathway by genome-wide RNAi screening)
 RN 917518-14-0 CAPLUS
 CN Protein (human clone WO2006/133931-SEQID-82 JAK/STAT signal transduction
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 101 RIRFYFPNWF GLEKCHRFGL RKDLASAILD LPVLEHLFAQ HRSDLVSGRL
 151 PVGLSLKEQG ECLSLAVLDL ARMAREQAQR PGELLKTVSY KACLPPLSLRD
 201 LIQGLSFVTR RRIIRRTVRR LRRVAACQAD RHSLMAKYIM DLERLDPAGA
 251 AETFFHVLPGLG ALGGHDGLGL LRVAGDGGIA WTQGEQEVLP PFCDFPEIVD
 301 ISIKQAPRVG PAGEHRLVTV TRTDNQILEA EFPGLPEALS FVALVDGYFR
 351 LTTDSQHFFC KEVAPPRLE EVAEQCHGPI TLDFAINKLK TGGSRPGSYV
 401 LRRSPQDFDS FLLTVCVQNP LGPDYKGCLI RRSPTGTFLV VGLSRPHSSL

451 RELLATCWDG GLHVDGVAVT LTSCCIPRPK EKSNIIVVQR GHSPPTSSLV
 501 QPQSQYQLSQ MTFHKIPADS LEWHENLGHG SFTKIYRGCR HEVVDGEARK
 551 TEVLLKVM DA KHKNMESFL EAASLMSQVS YRHLVLLHGV CMAGDSTMVQ
 601 EFVHLGAIDM YLRKRGLHVP ASWKLQVVKQ LAYALNYLED KGLPHGNVSA
 651 RKVLLAREGA DGSPPFIKLS DPGVSPAVLS LEMLTDRIPW VAPECLREAQ
 701 TLSLEADKWG FGATVWEVFS GVTMPISALD PAKKLQFYED RQQLPAPKWT
 751 ELALLIQQCM AYEPVQRPSF RAVIRDLNSL ISSDYELLS D PTPGALAPRD
 801 GLWNGAQLYA CQNPTFEFER HLKYISQLGK GNFGSVELCR YDPLGDNTGA
 851 LVAVKQLQHS GPDQQRDFQR EIQILKALHS DFIVKYRGVS YGPGRQSLRL
 901 VMEYLPSCGL RDFLQRHRAR LDASRLLLYS SQICKGMEYL GSRRCVHRDL
 951 AARNILVESE AHVKIADFG L AKLLPLDKDY YVVREPGQSP IFWYAPESLS
 1001 DNIFSRQSDV WSFGVVLIEL FTYCDKSCSP SAEFLRMMGC ERDVPALCRL
 1051 LELLEEGQRL PAPPACPAEV HELMKLCWAP SPQDRPSFSA LGPQLDMLWS
 1101 GSRGCETHAF TAHPEGKHHS LSFS

=> d ibib ed abs hitstr hitseq 158 2-35; fil hom

L58 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1311334 CAPLUS Full-text

DOCUMENT NUMBER: 146:80384

TITLE: Human interferon comprising non-natural amino acid modified with water soluble polymer for improving serum half-life and reducing side effects

INVENTOR(S): Hays, Anna-Maria; Kimmel, Bruce E.; Cho, Ho Sung; Sim, Bee-Cheng; Litzinger, David C.; Mariani, Roberto; Kraynov, Vadim; Knudsen, Nick; Daniel, Thomas O.; Koder, Alan; Bussell, Stuart; Liu, Junjie; Miao, Zhenwei; Morrow, Theresa

PATENT ASSIGNEE(S): Ambrx, Inc., USA

SOURCE: PCT Int. Appl., 337pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| WO 2006133089 | A2 | 20061214 | WO 2006-US21738 | 20060602 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |

PRIORITY APPLN. INFO.: US 2005-687173P P 20050603
US 2005-753375P P 20051221

OTHER SOURCE(S): MARPAT 146:80384

ED Entered STN: 15 Dec 2006

AB Modified human interferon polypeptides and uses thereof are provided. The human interferon is IFN, IFN α , IFN ϵ , IFN γ , IFN ω , IFN α -1a, IFN α -1b, IFN α -2a, IFN α -2b, IFN β -1a, IFN β -1b and IFN γ -1a. The human IFNs and mutants are modified with non-natural amino acid containing carbonyl, aminooxy, hydrazide, hydrazine, semicarbazide, azide or alkyne group, and conjugated with water-soluble branched or multiarmed polymer to improve biol. and/or pharmacol. properties e.g. to increase such as serum half-life, to reduce side effect such as immunogenicity or hematopoietic toxicity, and to enhance therapeutic activity such as antiviral activity.

IT **916779-24-3**

RL: PRP (Properties)

(unclaimed protein sequence; human interferon comprising non-natural amino acid modified with water soluble polymer for improving serum half-life and reducing side effects)

RN 916779-24-3 CAPLUS

CN 23: PN: WO2006133089 SEQID: 23 unclaimed protein (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **916779-24-3**

RL: PRP (Properties)

(unclaimed protein sequence; human interferon comprising non-natural amino acid modified with water soluble polymer for improving serum half-life and reducing side effects)

RN 916779-24-3 CAPLUS

CN 23: PN: WO2006133089 SEQID: 23 unclaimed protein (CA INDEX NAME)

SEQ 1 MLPVHLFLVG GVMLSCSPAS SLDGKSGSL HLERSETARF LAELRSVPGH
51 QCLRDRDTDFP CPWKEGTNIT PMTLGETTSC YSOTLKQVLH LFDTEASRAA
101 WHERALDQLL SSLWRELQVL KRPREQGQSC PLPFALAIPT YFRGFFRYLK
151 AKAYSACSWE IVRVQLQVDL PAFPLSARRG PR

L58 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1093210 CAPLUS Full-text

DOCUMENT NUMBER: 145:443875

TITLE: Polymer-based compositions and **conjugates** of antimicrobial agents

INVENTOR(S): Bossard, Mary J.; Mitchell, Stacy

PATENT ASSIGNEE(S): Nektar Therapeutics AL, Corporation, USA

SOURCE: PCT Int. Appl., 98pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| WO 2006110776 | A2 | 20061019 | WO 2006-US13548 | 20060411 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, | | | |

IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

US 2006239960 A1 20061026 US 2006-402641 20060411
 PRIORITY APPLN. INFO.: US 2005-671000P P 20050412

ED Entered STN: 19 Oct 2006

AB Water-soluble polymer conjugates and polymer-based compns. of antimicrobial agents are provided. Also provided are methods for synthesizing and administering such conjugates and compns. Thus, the PEGylation of lysostaphin with the degradable PEG reagent, mPEG SBC at pH 6.95 resulted in a mono-PEGylated (1-mer) conjugate MeO(CH₂CH₂O)_nCH₂CH₂NHCOC₆H₄OCONH-LY (NH-LY representing a residue of lysostaphin). The yield of mono-PEGylated conjugate was .apprx.44.7%. The half-life for mPEG-lysostaphin 1-mer conjugate was estimated to be 17.5 h.

IT **912858-56-1**

RL: PRP (Properties)

(unclaimed protein sequence; polymer-based compns. and
conjugates of antimicrobial agents)

RN 912858-56-1 CAPLUS

CN 1: PN: WO2006110776 SEQID: 1 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **912858-56-1**

RL: PRP (Properties)

(unclaimed protein sequence; polymer-based compns. and
conjugates of antimicrobial agents)

RN 912858-56-1 CAPLUS

CN 1: PN: WO2006110776 SEQID: 1 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MKKTKNNYYT RPLAIGLSTF ALASIVYGGI QNETHASEKS NMDVSKKVAE
 51 VETSKAPVEN TAEVETSKAP VENTAEVETS KAPVENTAEV ETSKAPVENT
 101 AEVETSKAPV ENTAEVETSK APVENTAEVE TSKALVQNRT ALRAATHEHS
 151 AQWLNYYKKG YGYGPYPLGI NGGMHYGVDF FMNIGTPVKA ISSGKIVEAG
 201 WSNYGGGNIQI GLIENDGVHR QWYMHLSKYN VKVGDYVKAG QIIGWSGSTG
 251 YSTAPHLHFQ RMVNSFSNST AQDPMFLKS AGYGKAGGTV TPTPNTGWKT
 301 NKYGTLYKSE SASFTPTNDI ITRTTGPFRS MPQSGVLKAG QTIHYDEVWK
 351 QDGHVWVGYT GNSGQRIYLP VRTWNKSTNT LGVLWGTTIK

L58 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1031869 CAPLUS Full-text

DOCUMENT NUMBER: 145:416030

TITLE: Astrocyte-specific gene expression profiles for the
 identification, assessment, prevention, and therapy of
 neurological diseases, disorders and conditions

INVENTOR(S): Bachoo, Robert M.

PATENT ASSIGNEE(S): Dana-Farber Cancer Institute, Inc., USA

SOURCE: PCT Int. Appl., 528pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|-------|-----------------|-------|
| ----- | ---- | ----- | ----- | ----- |

WO 2006105417 A2 20061005 WO 2006-US11960 20060331

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
 KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
 MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
 SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
 VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

US 2005-667922P P 20050331

ED Entered STN: 05 Oct 2006

AB The present invention is based on the identification of correlations between certain expressed markers (e.g., nucleic acid markers and protein markers) involved in neural cell survival and neural cell homeostasis, e.g., markers differentially expressed in astrocytes and in subjects suffering from neurol. diseases, disorders, or conditions. RNA isolated from murine embryonic neural stem cells differentiated into astrocytes, primary cortical astrocyte cultures from postnatal mice, pure neuronal cultures, and gray matter, corpus callosum, and glial limitans microdissected from the telencephalon of postnatal and adult mice was hybridized to Affymetrix U74 oligonucleotide microarrays. Differentially expressed genes were analyzed by (i) unsupervised hierarchical clustering, (ii) R-SVM, and (iii) threshold criteria, and genes differentially expressed by neurons were subtracted from the data. Candidate genes were validated by RNA in situ hybridization combined with immunohistochem. Finally, a novel clustering algorithm was used to identify addnl. astrocyte-specific genes that tightly cluster with the validated astrocyte genes. The identified differentially expressed transcripts and their encoded proteins can be used in compns., kits, and methods for detecting, characterizing, preventing, and treating human neurol. diseases, disorders, or diseases, and in the generation of a mouse model of neuroblastoma.

IT 911731-84-5 911731-88-9 911731-93-6
 911733-19-2 911734-12-8 911734-54-8

RL: PRP (Properties)

(unclaimed sequence; astrocyte-specific gene expression profiles for the identification, assessment, prevention, and therapy of neurol. diseases, disorders and conditions)

RN 911731-84-5 CAPLUS

CN 459: PN: WO2006105417 PAGE: 323/395 unclaimed sequence (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 911731-88-9 CAPLUS

CN 463: PN: WO2006105417 PAGE: 324/395 unclaimed sequence (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 911731-93-6 CAPLUS

CN 468: PN: WO2006105417 PAGE: 325/395 unclaimed sequence (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 911733-19-2 CAPLUS

CN 594: PN: WO2006105417 PAGE: 348/395 unclaimed sequence (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 911734-12-8 CAPLUS
 CN 691: PN: WO2006105417 PAGE: 363/395 unclaimed sequence (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 911734-54-8 CAPLUS
 CN 733: PN: WO2006105417 PAGE: 372/395 unclaimed sequence (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **911731-84-5 911731-88-9 911731-93-6**
911733-19-2 911734-12-8 911734-54-8
 RL: PRP (Properties)
 (unclaimed sequence; astrocyte-specific gene expression profiles for the identification, assessment, prevention, and therapy of neurol. diseases, disorders and conditions)

RN 911731-84-5 CAPLUS
 CN 459: PN: WO2006105417 PAGE: 323/395 unclaimed sequence (9CI) (CA INDEX NAME)

SEQ 1 MASEIHMSEP MCLIENTEAQ LVINQEALRI LSAITQPVVV VAIVGLYRTG
 51 KSYLMNKLKAG KRTGFSLGST VQSHTKGIWM WCVPHPKKAG QTLVLLDTEG
 101 LEDVEKGDNQ NDCWIFALAV LLSSTFIYNS IGTINQQAMD QLHYVTELTG
 151 LIKSKSSPDQ SGVDDSANFV GFFPTFVWTL RDFSLELEVN GKPVTSD EYL
 201 EHSITLKKGA DKKT KSFNEP RLCIRKFFPK RKCFIFDRPA QKQLSKLET
 251 LREEELCGEF VEQVAEFTSY ILSYSSVKTL CGGIIVNGPR LKSLVQTYVG
 301 AISNGSLPCM ESAVLTLAQI ENSAAVQKAI THYEEQMNQK IQMPTETLQE
 351 LLDLHRPIES EAIEVFLKNS FKDVDQKFQT ELGNLLVAKR DAFIKKNMDV
 401 SSARCSDLLE DIFGPLEEEV KLGTF SKPGG YYLFLQMRQE LEKKYNQAPG
 451 KGLQAEAMLK NYFDSKADV ETLLQTDQSL TEAAKEVEEEE RTKAEAAEAA
 501 NRELEKKQKE FELMMQKKEK SYQEHVKKLT EKM KDEQKQL LAEQENIIAA
 551 KLREQEKFLK EGFENESKKL IREIDTLKQN KSSGKCTIL

RN 911731-88-9 CAPLUS
 CN 463: PN: WO2006105417 PAGE: 324/395 unclaimed sequence (9CI) (CA INDEX NAME)

SEQ 1 MGKRWLPSLA LLPLPPPLLL LLLLLLPTNA SAPQKPIYMV MVPSLLHAGT
 51 PEKGCLLFNH LNETVTVKVS MESVRGNQSL FTDLVVDKDL FHCASFIVPQ
 101 SSSNEVMFLT VQVKGP THEF RRRSTVLIKT KESLVFAQTD KPIYKPGQMV
 151 RFRWVSLDEN FHPLNELIPL LYIQDSKKNR IAQWQNFRL E GGLKQLSFPL
 201 SSEPTQGSYK VVIRTESGRT VEHF SVKEF VLPKF EVKVA VPETITILEE
 251 EMNVSVCGIY TYGKPVPGHV TVNICRKYSN PSSCFGEESL AFCEKFSQQL
 301 DGRGCFSQLV KTKSFQLKRQ EYEMQLDVNA KIQEEGTGVE ETGKGLTKIT
 351 RTITKLSFVN VDT HFGQIP FVGQVLLVDG RGTPIPYEMI FIGADEANQN
 401 INTTDDKNGL ARFSINTDDI MGTSLTVRAK YKDSNVCYGF RWLTEENVEA
 451 WRTANAVFSP SRSFVHLESL PYKLRCEQTL AVQAHYILND EAVLERKELV
 501 FYYLMAKGG IVRAGTHVLP VTQGHKKGHF SILISMETDL APVARLVLYT
 551 ILPNGEVVDG TVKYEIEKCL ANKVDLVFHP NIGLPATRAF LSVMASPQSL
 601 CGLRAVDQSV LLTKPEAELS ASLVYDLLPV KDLTGFPKG V NQQEEDTNGC
 651 LKQNDTYIRN PVLPRQNTNE EDMYGFLKDM GLKVFTNLNI RKPVCERLG
 701 VNKI PAAYHL VSQGHMDAFL ESSESPTETT RSYFPETWIW DLVIVDSTGV
 751 AEMEVTVPDT ITEWKAG AFC LSNDTGLGLS PVIDFQAFQP FFVDLTMPYS
 801 VIRGEAFTLK ATVLNYLQTC IRGVQLEAS PDFLATPEEK EQKSHCICMN
 851 ERHTMSWAVI PKSLGNVNFT VSAEALDSKE LCRNEVPVVP ERGKKDTIIK
 901 SLLVEPEGLE NEVTFNSLLC PTGAEVSEQI SLKLPSDVVE ESARASVTVL

951 GDILGSAMQN TQDLLKMPYG CGEQNMVLFA PNIYVLDYLN ETEQLTQEIK
 1001 TKAITYLNTG YQRQLNYKHR DGSYSTFGDK PGRSHANTWL TAFVLKSFAQ
 1051 ARRYIFIDES HITQALTWLS QQQKDNGCFR SSGSLLNNAM KGGVEDEVTL
 1101 SAYITIALLE MSLPVTHPVV RNALFCLDTA WKSARRGASG NHVYTKALLA
 1151 YAFALAGNQD TKKEILKSLD EEAVKEDNSV HWTRAQKPRV PADLWYQPQA
 1201 PSAEVEMTAY VLLAYLTTEL VPTREDLTAA MLIVKWLTKQ QNSHGGFSST
 1251 QDTVVALHAL SKYGAATFTR AKKAAHVTIQ SSGAFYTKFQ VNNDNQLLLQ
 1301 RVTLPVTPGD YTAKVAGEGC VYLQTSLKYS VLPREKEFPF ALVVQTLPGT
 1351 CEDLKAHTTF QISLNISYIG SRSDSNMAIA DVKMOVSGFIP LKPTVKMLER
 1401 SVHVSRTVEVS NNHVLIYLDK VSNQMLTLFF MVQQDIPVRD LKPAIVKVYD
 1451 YYEKDEFABA KYSAPCSAGY GNA

RN 911731-93-6 CAPLUS
 CN 468: PN: WO2006105417 PAGE: 325/395 unclaimed sequence (9CI) (CA INDEX NAME)

SEQ 1 MAAATPTETP APEGSGLGMD ARLDQETAQW LRWDQNPLTS ESVKQLIAGG
 51 NKEELRKCFG ARMEFGTAGL RAPMGAGISR MNDLTIIQTT QGFCRYLEKQ
 101 FSDLKQRGVV ISFDARAHPA SGGSSRRFAR LAATAFITQG VPVYLFSDIT
 151 PTPFVPYTVS HLKLCAGIMI TASHNPKQDN GYKVYWDNGA QIISPHDRGI
 201 SQAIEENLEP WPQAWHEELV DSSPLLHNPS ASIGNDYFED LKKYCFHRTV
 251 NKESKVKFVH TSVHGVGHEF VQLAFKAFDL APPEAVPQQK DPDPEFPTVK
 301 YPNPEEGKGV LTLSFALADK IKAKIVLAND PDADRLAVAE QDQSGEWRVF
 351 SGNELGALLG WWLFTSWKEK NQDQSNLKDT YMLSSTVSSK ILRAIALKEG
 401 FHFEETLTGF KWMGNRAQQL GDQGKTVLFA FEEAIGYMCC PFVLDKDGVS
 451 AAVICAEALS FLATKNLSLS QQLNAIYVEY GYHITTASYF ICHDQGTION
 501 LFGNLRNYDG KNNYPKMCCK FEISAIRDLT TGYDDSQPKD KAVLPTSKSS
 551 QMITFTFANG GVATMRTSGT EPKIKYYAEL CAPPNGSDPE HLKKEDELV
 601 GAIEEHFFQP QKYNLQPKAE

RN 911733-19-2 CAPLUS
 CN 594: PN: WO2006105417 PAGE: 348/395 unclaimed sequence (9CI) (CA INDEX NAME)

SEQ 1 MATAMTVSSK LRGLLMQQLR GTSQLYFNIS LRSLSSSAQE ASKRAPEEVS
 51 DHNYESIQVT SAQKHVLHVQ LNRPEKRNAM NRAFWRLEVE CFQKISKDSD
 101 CRAVVVSGAG KMFTSGIDLM DMASELMQPS GDDAARIAWY LRDLSKYQK
 151 TFTVIEKCPK PVIAAIHGGC IGGGVLDLVA CDIRYCTQDA FFQIKEVDMG
 201 LAADVGTLQR LPKVIGNQSL VNELTFSARK MMADEALDSG LVSRVFQDKD
 251 AMLNAAFALA ADISSKSPVA VQGSKINLIY SRDHSVDESL DYMATWNMSM
 301 LQTQDIIKSV QAAMEKRDTK SITFSKL

RN 911734-12-8 CAPLUS
 CN 691: PN: WO2006105417 PAGE: 363/395 unclaimed sequence (9CI) (CA INDEX NAME)

SEQ 1 MAKPLTDSER QKQISVRGIA GLGDVAEVRK SFNRHLHFTL VKDRNVATPR
 51 DYFFALAHTV RDHLVGRWIR TQQHYERDP KRIYYLSLEF YMGRTLQNTM
 101 VNLGLQTACD EATYQLGLDL EELEEIEEDA GLGNGGLGRL AACFLDSMAT
 151 LGLAAYGYGI RYEFGI FNQK IVNGWQVEEA DDWLRYGNPW EKARPEYMLP
 201 VHFYGRVEHT PDGVLWLDTO VVLAMPYDTP VPGYKNNTVN TMRLWSAKAP

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251 NDFKLKDFNV GDYIEAVLDR NLAENISRVL YPNDNFFEGK ELRLKQEYFV
301 VAATLQDIIR RFKSSRFGCR DPVRTCFETF PDKVAIQLND THPALSIPEL
351 MRILVDVEKV DWDKAWAITK KTCAYTNHTV LPEALERWPV SMFEKLLPRH
401 LEIIYAINQR HLDHVAALFP GDVDRLLRMS VIEEGDCKRI NMAHLCVIGS
451 HAVNGVARIH SEIVKQSVFK DFYELEPEKF QNKTNGITPR RWLLLCNPGL
501 AEIIVERIGE GFLTDLSQLK KLLSLVDDEA FIRDVAKVKQ ENKLKFSACL
551 EKEYKVKINP ASMFVHVVR IHEYKRQLLN CLHIITLYNR IKKDKPAKAFV
601 PRTVMIGGKA APGYHMAKMI IKLVTSIGDV VNHDPPVVGDR LRVIFLENYR
651 VSLAEKVIPA ADLSQQISTA GTEASGTGNM KFMLNGALTI GTMDGANVEM
701 AEEAGEENLF IFGMVRVEDVE ALDQKGYNAR EHYERLPELR QAVDQISSGF
751 FSPKDPDFCK DVVNMLMYHD RFKVFADYEA YIQCAQVDR LYRNSKEWTK
801 KVIRNIACSG KFSSDRITTE YAREIWGVEP SDLQIPPPNL PKD

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RN 911734-54-8 CAPLUS

CN 733: PN: WO2006105417 PAGE: 372/395 unclaimed sequence (9CI) (CA INDEX NAME)

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SEQ      1 MHVSLAEALE VRGGPLQEEE IWAVLNQSAE SLQEVFRRVS IADPAALGFTI
      51 ISPWSLLLLP SGSVSFTDEN VSNQDLRAST APEVLQSHSL TSLADVEKIH
     101 IYSLGMTLYW GADHEVPQSQ PIKLGDLHNS ILLGMCEDVI YARVSVRTVL
     151 DACSAHIRNS NCAPSFSNVK QLVKLVLGNI SGTDPLSRSS EQKPDRSQAI
     201 RDRLRGKGLP TGRSSTSDAL DTHEAPLSQQ TFFVNKGLSKS MGFLSIRDTR
     251 DEEDYLKDTF SDNNSRHEDS ETFSSPYQFK TSTPQMDALS KKKTWASSMD
     301 LLCAANRDIS GETGRYQRCD PKTVTGRTSI TPRKKEGRYS DGSIALDIFG
     351 PQKVEPVIHT RELPTSTAVS SALDRIRERQ QKLQVLEAM NVEEPVRRYK
     401 TYHSDIFSIS SESPSVISSE SDFRQVRKSE ASKRFESSSG LPGVDETGTQ
     451 RPSRQYETSL EGNLINQDIM LRRQEEEMMQ LQARMALRQS RLSLYPGDTV
     501 KASMLDISRD PLREMALETA MTQRKLRNFF GPEFVKMTVE PFVSLDLPRS
     551 ILSQTKKGKS EDQRRKVNIR LLSGQRLELT CDTKTICKDV FDMVVAHIGL
     601 VEHLHFALAT RKENEFYFVD PDLKLTKVAP EGWKEEPKRK GKAADVFTLF
     651 FRIKFFMDDV SLIQHDLTCH QYYLQLRKDL LDERVHCDDE AALLLASLAL
     701 QAEYGDYQPE VHGVSYFRLE HYLPAVMEK LDVSYIKEEL PKLHNTYAGA
     751 SEKETELEFL KVCQRLTEYG VHFHRVHPEK KSQTGILLGV CSKGVLVFEV
     801 HNGVRALVLR FPWRETKKIS FSKKKITLQN TSDGIKHAFO TDSSKACQYL
     851 LHLCSSQHKF QLQMRARQSN QDAQDIERAS FRSLNLQAES VRGFNMGRAI
     901 STGSLASSTI NKLAVRPLSV QAEILKRLSS SEWSLYQPLQ NSSKEKTDKA
     951 SWECKPRGMS KSYHDLQSAS LCPHRKQVIN MEALPQAFAE LVGKPLYPMA
    1001 RSDTESLAGL PKLDNSKSAV SLNRSPPERRN HESDSSTEDP GQAYVVGMSL
    1051 PSSGKSSSQV PFKDNDTLHK RWSIVSSPER EITLVNLKGD PKHGLGFQII
    1101 GGEKMGRDLG GVFISAVTPG GPADLDGCLK PGDRLISVNS VSLEGVSHHA
    1151 AVDILQNAPE DVTLVISQPK EKPSKVPSTP VHFANGMKSY TKKPAYMQDS
    1201 AMPSEDQPW PRGTLRHIPE SPFGLSGGLR EGSLSSQDSR TESASLSQSQ
    1251 VNGFFASHLG DRGWQEPQHS SPSPSVTTKV NEKTFSDSNR SKAKRRGISD
    1301 LIEHLDCADS DKDDSTYTSS QDHQTSKQEP SSSLSTSNKT SFPTSSASPP
    1351 KPGDTFEVEL AKTDGSLGIS VTGGVNTSVR HGGIYVKAI PKGAAESDGR
    1401 IHKGRVRLAV NGVSLEGATH KQAVETLRNT GQVVHLLLEK GQVPTSRRERD
    1451 PAGPQSPPPD QDAQRQAPEK VAKKHPMSKT TALLLKIIIE VKLFFKNSSGT
    1501 GFSFSREDNL IPEQINGSIV RVKKLFPGQP AAESGKIDVG DVILKVNGAP
    1551 LKGLSQQDVI SALRGTAPEV SLLLCRPAPG VLPEIDTTFL NPLYSPANSF
    1601 LNSSKETSQP SSSVEQGASS DDNGVSGKTK NHCRAPSRRE SYSDHSESSE
    1651 DDSVRAPAKM PNVTRVAAPF HEAPRSQES ICAMFYLPK IPGKLESESS
    1701 HPPPLDVSPG QTCQPPAEC A PSDATGKHFT HLASQLSKEE NITTLKNDLG
    1751 NHLEDSELEV ELLITLVKSE KGSGLGFTVTK GSQSIGCYVH DVIQDPAKGD
    1801 GRLKAGDRLI KVNDTDTNM THTDAVNLLR AAPKTVRLVL GRILELPRMP
    1851 VFPHLLPDIT VTCHGEELGF PLSGGQGSPPH GVVYISDINP RSAAAVDGS
    1901 QLLDIIHYVN GVSTQGMTLE DANRALDSL PSVVLKVTRD GCPVVPPTTRA
    1951 AISAPRFTKA NGLTSMEPSG QPALMPKNSF SKVNGEGVHE AVCPAGESS

```

2001 SQMKESAGLT ETKESNSRDD DIYDDPQAE VIQSLLDVVD EEAQNLLNQR
 2051 HATTRACSPD PLRTNGEAP EGD TDYDGSP LPEDVPESVS SGEGKVDLAS
 2101 LTAASQEEKP IEEDATQESR NSTTETTDGE DSSKDPFLT NEELAALPVV
 2151 RVPPSGKYTG TQLQATIRTL QGLLDQGIPS KELENLQELK PLDQCLIGQT
 2201 KENRRKNRYK NILPYDTTRV PLGDEGGYIN ASFIRIPVGT QEFVYIACQG
 2251 PLPTTVGDFW QMVWEQNSTV IAMMTQEV EG EKI KCQRYWP SILGTTTMAN
 2301 ERLRLALLRM QQLKGFIVRV MALEDIQTGE VRHISHLNFT AWPDHDTPSQ
 2351 PDDL LTFISY MRHIRRSGPV ITHCSAGIGR SGT LICIDVV LGLISQDLEF
 2401 DISDLVRCMR LQRHGMVQTE GQYVFCYQVI LYVLTHLQAE EQKAQQGSHS
 2451 DAEQPPKAPP

L58 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:769222 CAPLUS Full-text

DOCUMENT NUMBER: 145:180970

TITLE: Abasic oligonucleotides as carrier platform for antigens and immunostimulatory agonists and antagonists, and their therapeutic use

INVENTOR(S): Lipford, Grayson B.; Forsbach, Alexandra; Uhlmann, Eugen; Wagner, Hermann

PATENT ASSIGNEE(S): Coley Pharmaceutical GmbH, Germany

SOURCE: PCT Int. Appl., 83pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| WO 2006080946 | A2 | 20060803 | WO 2005-US20225 | 20050608 |
| WO 2006080946 | A3 | 20061221 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| AU 2005326144 | A1 | 20060803 | AU 2005-326144 | 20050608 |
| CA 2567789 | A1 | 20060803 | CA 2005-2567789 | 20050608 |
| EP 1753453 | A2 | 20070221 | EP 2005-856794 | 20050608 |
| R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU | | | |

PRIORITY APPLN. INFO.: US 2004-577813P P 20040608
 WO 2005-US20225 W 20050608

ED Entered STN: 04 Aug 2006

AB Comps. and methods are provided for enhancing delivery of therapeutic agents. More specifically, comps. and methods are provided for improving antigen delivery to antigen-presenting cells. Conjugates between abasic oligonucleotides and antigen are provided, along with methods for their use in vaccination and in the treatment of cancer, infection, and allergy and asthma.

Also provided are conjugates between abasic oligonucleotides and various immunostimulatory nucleic acids, including CpG oligonucleotides, as well as methods of use thereof. Also provided are conjugates between abasic oligonucleotides and various other agonists and antagonists of immunostimulation, as well as methods of use thereof.

IT **363639-78-5**, GENBANK AAK29625 **415177-29-6**, GENBANK AAK28488 **483531-45-9**, GenBank BAB19260
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (abasic oligonucleotides as carrier platform for antigens and immunostimulatory agonists and antagonists, and therapeutic use)
 RN 363639-78-5 CAPLUS
 CN Receptor TLR-9 (Toll-like receptor-9) (Mus musculus RAW264.7 cell gene Tlr9) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 415177-29-6 CAPLUS
 CN Receptor TLR-9 (Toll-like receptor-9) (Mus musculus strain BALB/c spleen gene Tlr9 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 483531-45-9 CAPLUS
 CN GenBank BAB19260 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **363639-78-5**, GENBANK AAK29625 **415177-29-6**, GENBANK AAK28488 **483531-45-9**, GenBank BAB19260
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (abasic oligonucleotides as carrier platform for antigens and immunostimulatory agonists and antagonists, and therapeutic use)
 RN 363639-78-5 CAPLUS
 CN Receptor TLR-9 (Toll-like receptor-9) (Mus musculus RAW264.7 cell gene Tlr9) (9CI) (CA INDEX NAME)

SEQ 1 MVLRRRTLHP LSLLVQAAVL AETLALGTLF AFLPCELKPH GLVDCNWLFL
 51 KSVPRFSAAA SCSNITRLSL ISNRIHHLHN SDFVHLSNLR QNLNWKNCPP
 101 TGLSPLHFSC HMTIEPRTFE AMRTLEELNL SYNGITTVPF LPSSLVNLNL
 151 SHTNILVLDA NSLAGLYSLR VLFMDGNCYY KNPCTGAVKV TPGALLGLSN
 201 LTHLSLKYNN LTKVPRQLPP SLEYLLVSYN LIVKLGPEL ANLTSRLVLD
 251 VGGNCRCDH APNPCIEGQ KSLHLHPETF HHLSHLEGLV LKDSLHTLN
 301 SSWFQGLVNL SVLDLSENFL YESINHTNAF QNLTRLRKLN LSFNYRKKVS
 351 FARLHLASSF KNLVSLQELN MNGIFFRSLN KYTLRWLADL PKLHTLHLQM
 401 NFINQAQLSI FGTFRALRFV DLSNDRISGP STLSEATPEE ADDAEQEELL
 451 SADPHAPLS TPASKNFMDR CKNFKFTMDL SRNNLVTIKP EMFVNLSRLQ
 501 CLSLSHNSIA QAVNGSQFLP LTNLQVLDLS HNKLDLYHWK SFSELPQLQA
 551 LDLSYNSQPF SMKGIGHNFS FVAHLSMLHS LSLAHNDIHT RVSSHLNSNS
 601 VRFLDFSGNG MGRMWDEGGL YLHFFQGLSG LLKLDLSQNN LHILRPQNLD
 651 NLPKSLKLLS LRDNYLSFFN WTSLSFLPNL EVLDLAGNQL KALTNGTLPN
 701 GTLLQKLDVS SNSIVSVVPA FFALAVELKE VNLSHNLIK VDRSWFGPIV
 751 MNLTVLDVRS NPLHCACGAA FVDLLLEVQT KVPGLANGVK CGSPGQLQGR
 801 SIFAQDLRLC LDEVLSWDCF GLSLLAVAVG MGVPIHLHLC GWDVWYCFHL
 851 CLAWLPLLAR SRRSAQALPY DAFVVFDDAQ SAVADWVYNE LRVRLERRG
 901 RRALRLCLED RDWLPQGTLE ENLWASIYGS RKTFLVLAHT DRVSGLLRTS
 951 FLLAQQLLE DRKDVVVLVI LRPDAHRSRY VRLRQRLCRQ SVLFWPQQPN
 1001 GQGGFWAQLS TALTRDNRHF YNQNFRCGPT AE

RN 415177-29-6 CAPLUS
 CN Receptor TLR-9 (Toll-like receptor-9) (Mus musculus strain BALB/c spleen
 gene Tlr9 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MVLRRRTLHP LSLLVQAAVL AETLALGTLF AFLPCELKPH GLVDCNWLFL
 51 KSVPRFSAAA SCSNITRLSL ISNRIHHLHN SDFVHLSNLR QNLNWKNCPP
 101 TGLSPLHFSC HMTIEPRTFL AMRTLEELNL SYNGITTVPRLPSSLVNLSL
 151 SHTNIVLDA NSLAGLYSLR VLFMDGNCYY KNPCTGAVKV TPGALLGLSN
 201 LTHLSLKYYN LTKVPRQLPP SLEYLLVSYN LIVKLGPEL ANLTSRLVLD
 251 VGGNCRRCDH APNPCIECGQ KSLHLHPETF HHLSHLEGLV LKDSSTLHTLN
 301 SSWFQGLVNL SVLDLSENFL YESINHTNAF QNLTRLRKLN LSFNYRKKVS
 351 FARLHLASSF KNLVSLQELN MNGIFFRSLN KYTLRWLADL PKLHTLHLQM
 401 NFINQAQLSI FGTFRALRFV DLSDNRISGP STLSEATPEE ADDAEQEELL
 451 SADPHPAPLS TPASKNFMDR CKNFKFTMDL SRNNLVTIKP EMFVNLSRLQ
 501 CLSLSHNSIA QAVNGSQFLP LTNLQVLDLS HNKLDLYHWK SFSELPQLQA
 551 LDLSYNSQPF SIKGIGHNFS FVAHLSMLHS LSLAHNDIHT RVSSHLNSNS
 601 VRFLDFSGNG MGRMWDEGGL YLHFFQGLSG LLKLDLSQNN LHILRPQNLD
 651 NLPKSLKLLS LRDNYLSFFN WTSLSFLPNL EVLDLAGNQL KALTNGTLPN
 701 GTLLQKLDVS SNSIVSVVPA FFALAVELKE VNLSHNILKT VDRSWFGPIV
 751 MNLTVLDVRS NPLHCACGAA FVDLLLEVQT KVPGLANGVK CGSPGQLQGR
 801 SIFAQDLRLC LDEVLSWDCF GLSLLAVAVG MIVPILHHLC GWDVWYCFHL
 851 CLAWLPLLAR SRRSAQALPY DAFVVFDKAQ SAVADWVYNE LRVRLGRRG
 901 RRALRLCLED RDWLPGQTLF ENLWASIYGS RKTFLVLAHT DRVSGLLRTS
 951 FLLAQQRLLD DRKDVVVLVI LRPDAHRSRY VRLRQRLCRQ SVLFWPQQPN
 1001 GQGGFWAQLS TALTRDNRHF YNQNFCRGPT AE

RN 483531-45-9 CAPLUS
 CN GenBank BAB19260 (9CI) (CA INDEX NAME)

SEQ 1 MVLRRRTLHP LSLLVQAAVL AETLALGTLF AFLPCELKPH GLVDCNWLFL
 51 KSVPRFSAAA SCSNITRLSL ISNRIHHLHN SDFVHLSNLR QNLNWKNCPP
 101 TGLSPLHFSC HMTIEPRTFL AMRTLEELNL SYNGITTVPRLPSSLVNLSL
 151 SHTNIVLDA NSLAGLYSLR VLFMDGNCYY KNPCTGAVKV TPGALLGLSN
 201 LTHLSLKYYN LTKVPRQLPP SLEYLLVSYN LIVKLGPEL ANLTSRLVLD
 251 VGGNCRRCDH APNPCIECGQ KSLHLHPETF HHLSHLEGLV LKDSSTLHTLN
 301 SSWFQGLVNL SVLDLSENFL YESINHTNAF QNLTRLRKLN LSFNYRKKVS
 351 FARLHLASSF KNLVSLQELN MNGIFFRSLN KYTLRWLADL PKLHTLHLQM
 401 NFINQAQLSI FGTFRALRFV DLSDNRISGP STLSEATPEE ADDAEQEELL
 451 SADPHPAPLS TPASKNFMDR CKNFKFTMDL SRNNLVTIKP EMFVNLSRLQ
 501 CLSLSHNSIA QAVNGSQFLP LTNLQVLDLS HNKLDLYHWK SFSELPQLQA
 551 LDLSYNSQPF SMKGIGHNFS FVTHLSMLQS LSLAHNDIHT RVSSHLNSNS
 601 VRFLDFSGNG MGRMWDEGGL YLHFFQGLSG LLKLDLSQNN LHILRPQNLD
 651 NLPKSLKLLS LRDNYLSFFN WTSLSFLPNL EVLDLAGNQL KALTNGTLPN
 701 GTLLQKLDVS SNSIVSVVPA FFALAVELKE VNLSHNILKT VDRSWFGPIV
 751 MNLTVLDVRS NPLHCACGAA FVDLLLEVQT KVPGLANGVK CGSPGQLQGR
 801 SIFAQDLRLC LDEVLSWDCF GLSLLAVAVG MIVPILHHLC GWDVWYCFHL
 851 CLAWLPLLAR SRRSAQTLPY DAFVVFDKAQ SAVADWVYNE LRVRLGRRG
 901 RRALRLCLED RDWLPGQTLF ENLWASIYGS RKTFLVLAHT DRVSGLLRTS
 951 FLLAQQRLLD DRKDVVVLVI LRPDAHRSRY VRLRQRLCRQ SVLFWPQQPN
 1001 GQGGFWAQLS TALTRDNRHF YNQNFCRGPT AE

L58 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:101085 CAPLUS Full-text

DOCUMENT NUMBER: 144:164292
 TITLE: Guanylate binding protein (GBP-1) as cell proliferation inhibitor and cellular differentiation marker, vectors expressing the same, and therapeutic uses
 INVENTOR(S): Sturzl, Michael; Cornali, Emmanuelle
 PATENT ASSIGNEE(S): Sturzl, Michael, Germany
 SOURCE: U.S. Pat. Appl. Publ., 25 pp., Cont.-in-part of U.S. Ser. No. 791,502.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|-------------|
| US 2006025362 | A1 | 20060202 | US 2005-59292 | 20050216 |
| WO 2000012737 | A1 | 20000309 | WO 1999-EP6148 | 19990823 |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| AU 9955184 | A | 20000321 | AU 1999-55184 | 19990823 |
| EP 1736547 | A1 | 20061227 | EP 2006-116437 | 19990823 |
| R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| US 2002115138 | A1 | 20020822 | US 2001-791502 | 20010223 |
| US 6894157 | B2 | 20050517 | | |
| PRIORITY APPLN. INFO.: | | | DK 1998-1081 | A 19980826 |
| | | | DK 1998-1241 | A 19981001 |
| | | | WO 1999-EP6148 | A2 19990823 |
| | | | US 2001-791502 | A2 20010223 |
| | | | EP 1999-941654 | A3 19990823 |
| | | | WO 1999-DK6148 | W 19990823 |

ED Entered STN: 03 Feb 2006

AB The present invention relates to a recombinant protein consisting of Guanylate Binding Protein-1 (GBP-1), or one or more functional parts thereof, linked to a shuttle protein, such as HIV-1-tat transduction domain. The present invention provides an expression vector comprising the Guanylate Binding Protein 1 (GBP-1) gene or parts thereof. The introduction of said vector comprising said gene or parts thereof in sense or antisense orientation into cells can be used to induce phenotypical changes of said cells and can, thus, be used for modulation of cell differentiation. The invention is based on the discovery that GBP-1 plays roles in cell adhesion and proliferation. Differential display RT-PCR demonstrates that GBP-1 mRNA expression is induced by interferon- γ , interleukin- 1β , and tumor necrosis factor- α , but not by angiogenic factors in HDMVEC (human dermis microvascular endothelial cells). Vascular endothelial growth factor and basic fibroblast growth factor inhibit interleukin- 1β induction of GBP-1 mRNA in HDMVEC and also inhibit the binding of U937 monocytes to interleukin- 1β or interferon- γ -activated HDMVEC. Thus, the present invention provides GBP-1-expressing vectors for the treatment of cancer, sarcoma, lymphoma, hemangioma, atherosclerosis or restenosis, but also the treatment of inflammatory diseases like chronic ulcerative diseases, psoriasis, insect bites, freezing or burning injuries, wound healing, or

Morbus Crohn. Addnl., the present invention provides, inter alia, a method for determination of the stage of cellular differentiation by using GBP-1 gene expression as a marker.

IT **874689-74-4DP**, fusion products

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; guanylate binding protein (GBP-1) as cell proliferation inhibitor and cellular differentiation marker, vectors expressing same, and therapeutic uses)

RN 874689-74-4 CAPLUS

CN Protein GBP-1 (guanylate-binding protein 1) (human) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **874689-74-4DP**, fusion products

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; guanylate binding protein (GBP-1) as cell proliferation inhibitor and cellular differentiation marker, vectors expressing same, and therapeutic uses)

RN 874689-74-4 CAPLUS

CN Protein GBP-1 (guanylate-binding protein 1) (human) (9CI) (CA INDEX NAME)

SEQ 1 MASEIHMTGP MCLIENTNGR LMANPEALKI LSAITQPMVV VAIVGLYRTG
51 KSYLMNKLKAG KKKGFSLGST VQSHTKGIWM WCVPHPKKPG HILVLLDTEG
101 LGDVEKGDNQ NDSWIFALAV LLSSTFVYNS IGTINQQAMD QLYYVTELTH
151 RIRSKSSPDE NENEVEDSAD FVSFFPDFVW TLRDFSLEADL ADGQPLTPDE
201 YLTYSLKLKK GTSQKDETFN LPRLCIRKFF PPKKCFVFDR PVHRRKLAQL
251 EKLQDEELDP EFVQQVADFC SYIFSNSKTK TLSGGIQVNG PRLESLVLTY
301 VNAISSGDLP CMENAVLALA QIENSAVQK AIAHYEQQMG QKVQLPTETL
351 QELLDLHRDS EREAIEVFIR SSFKDVDHLF QKELAAQLEK KRDDFCKQONQ
401 EASSDRCSAL LQVIFSPLEE EVKAGIYSKP GGYRLFVQKL QDLKKKYEE
451 PRKGIQAEI LQTYLKSKE MTDAILQTDQ TLTEKEKEIE VERVKAESAQ
501 ASAKMLQEMQ RKNEQMMQK ERSYQHLKQ LTKMENDRV QLLKEQERTL
551 ALKLQEQQL LKEGFQKESR IMKNEIQDLQ TKMRRRKACT IS

L58 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1313893 CAPLUS Full-text

DOCUMENT NUMBER: 144:67422

TITLE: Gene expression profile for diagnosing transport stress in horses

INVENTOR(S): Brandon, Richard Bruce; Thomas, Mervyn Rees

PATENT ASSIGNEE(S): Genomics Research Partners Pty Ltd, Australia

SOURCE: PCT Int. Appl., 445 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
| WO 2005118810 | A1 | 20051215 | WO 2005-AU794 | 20050603 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, | | | | |

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
 LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
 NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
 SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
 ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG
 AU 2005250056 A1 20051215 AU 2005-250056 20050603
 CA 2568967 A1 20051215 CA 2005-2568967 20050603
 PRIORITY APPLN. INFO.: US 2004-576285P P 20040603
 AU 2004-903003 A 20040604
 WO 2005-AU794 W 20050603

ED Entered STN: 16 Dec 2005

AB The present invention is predicated on the discovery that horses subjected to stress have aberrant expression of certain genes or certain alleles of genes, referred to as stress marker genes, as compared to horses not subjected to stress. One hundred thirty-four stress marker genes are identified by GeneChip anal. of blood obtained from normal horses and from 20 horses subjected to transport stress over 48 h. Of the 134 marker genes, 96 have full-length or substantially full-length coding sequences and the remaining 38 have partial sequence information at one or both of their 5' and 3' ends. Significant genes were ranked according to an Empirical Bayes approach, and the gene sequences were compared against the GenBank database using the BLAST algorithm. The identified stress marker genes include 38 previously uncharacterized equine genes. The sequences of isolated nucleic acids find utility inter alia as hybridization probes or amplification primers. Thus, the present invention provides mols. and assays for qual. or quant. determining the effect of stress on the immune system, the susceptibility to developing disease or illness through immune system dysfunction as a result of stress, and for monitoring the ability of an animal to cope with stress. The invention is useful inter alia in measuring response to immunomodulatory therapies, and monitoring the immune response to natural disease under stressful conditions, especially those in athletic training, in measuring the effects of aging on the ability to respond to external stressors, and in enabling better treatment and management decisions to be made in animals at risk of exposure to disease, or susceptible to disease through the effects of stress.

IT **871612-63-4 871612-81-6**

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; gene expression profile for diagnosing transport stress in horses)

RN 871612-63-4 CAPLUS

CN Protein (Equus caballus gene WBC013G08 protein FLJ16386 sequence homolog) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 871612-81-6 CAPLUS

CN Protein (Equus caballus gene BM781012 immunoglobulin IgG γ 1-chain constant region sequence homolog) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **871612-63-4 871612-81-6**

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; gene expression profile for diagnosing transport stress in horses)

RN 871612-63-4 CAPLUS

CN Protein (Equus caballus gene WBC013G08 protein FLJ16386 sequence homolog) (9CI) (CA INDEX NAME)

SEQ 1 MESGPKMLAP VCLVENNNEQ LLVNQQAIQI LEKISQPVVV VAIVGLYRTG
 51 KSYLMNHLAG QNHGFPLGST VQSETKGIWM WCVPHPSKPN HTLVLLDTEG
 101 LGDVEKGDPK NDSWIFALAV LLCSTFVYNS MSTINHQALE QLHYVTELTE
 151 LIRAKSSPRP DEVQDSTEFV SFFPDFIWTV RDFTLELKLKLD GHPITEDEYL
 201 ENALKLIPGK NPKVQASNLP RECIRLFFPK RKCFVFDRIPI NDKALLADIE
 251 NVSENELDSK FQEQINKFCS HIFTHARPKT LREGIMVTGN RLRTLVTYV
 301 DTINTGAVPC LENAVRTLAQ LENSVMQKA ADHYSEQMAE KLKLPTDTLQ
 351 ELLDVHTACE REAIAFFMEH SFKDENQEFQ KKFMETTMNK KGDFLLQNEE
 401 SSVQYCQAKL NELSKGLMES ISAGSFSVPG GHKLYMETKE RIEQDYWQVP
 451 RKGVKAKEVF QRFLESQMVI EESILQSDKA LTDREKAVAV DRAKKEAAEK
 501 EQELLKQKLQ EQQQQMEAQD KSRKENIAQL KEKLQMEREH LLREQIMMLE
 551 HTQKVQNDWL HEGFKKKYEE MNAEISQFKR MIDTTKNDDT PWIARTLDNL
 601 ADELTAILSA PAKLIGHGVK GVSSLFKKHK LPF

RN 871612-81-6 CAPLUS

CN Protein (Equus caballus gene BM781012 immunoglobulin IgG γ 1-chain constant region sequence homolog) (9CI) (CA INDEX NAME)

SEQ 1 ASTTAPKVFA LAPGCGTTS D STVALGCLVS GYFPEPVKVS WNSGSLTSGV
 51 HTFPSVLQSS GFYSLSSMVT VPASTWTSET YICNVVHAAS NFKVDKRIEP
 101 IPDNHQKVCD MSKCPKCPAP ELLGGPSVFI FPPNPKDTLM ITRTPEVTCV
 151 VVDVSQENPD VKFNWYMDGV EVRTATTRPK EEQFNSTYRV VSVLRIQHOD
 201 WLSGKEFKCK VNNQALPQPI ERTITKTKGR SQEPQVYVLA PHPDELSKSK
 251 VSVTCLVKDF YPPEINIEWQ SNGQPELETK YSTTQAQQDS DGSYFLYSKL
 301 SVDNRNRWQQG TTFTCGVMHE ALHNHYTQKN VSKNPGK

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L58 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1218484 CAPLUS Full-text

DOCUMENT NUMBER: 143:453990

TITLE: Membrane-associated proteins for the diagnosis and therapy of hyperproliferative or autoimmune disorders and their identification using a custom microarray

INVENTOR(S): Betchel, Pamela; Daniels, Mark; McLachlan, Karen; Zhai, Yufeng; Colson, Benjamin L.; O'Brien, Nicole W.

PATENT ASSIGNEE(S): Biogen Idec MA Inc., USA

SOURCE: PCT Int. Appl., 336 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2005108415 | A2 | 20051117 | WO 2005-US15207 | 20050502 |

WO 2005108415 A8 20060518
 WO 2005108415 A3 20061130

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
 LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
 NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
 SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
 ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2004-567187P P 20040430

ED Entered STN: 17 Nov 2005

AB The present invention is directed to novel methods of treating, identifying, or diagnosing a hyperproliferative disorder. The methods of the invention include administering to a patient a composition comprising a binding mol. which binds to a cell surface-expressed glycoprotein expressed predominantly in tumor or tumor-associated cells. In particular, the therapeutic and diagnostic methods of the present invention include the use of a binding mol., for example an antibody or immunospecific fragment thereof, which specifically binds to a membrane-associated mol., variant polypeptide or fragment thereof. The present invention is based, at least in part, on the discovery of membrane-associated proteins, i.e., nucleic acid mols. which encode membrane proteins and the use of these mols. to generate custom arrays to screen for markers associated with various diseases and disorders, e.g., cancer, e.g., lung, colon, pancreatic, and ovarian cancer and autoimmune diseases or disorders. The invention further relates to various methods, reagents and kits for diagnosing, staging, prognosing, monitoring, and treating hyperproliferative diseases or disorders such as cancer, e.g., lung, colon, pancreatic, and ovarian cancer and autoimmune diseases or disorders.

IT 869168-94-5 869169-59-5 869170-18-3

869170-37-6 869170-84-3 869171-06-2

869171-27-7 869172-19-0 869172-58-7

869173-67-1 869175-12-2 869175-13-3

869244-27-9

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; membrane-associated proteins for diagnosis and therapy of hyperproliferative or autoimmune disorders and their identification using custom microarray)

RN 869168-94-5 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1277 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869169-59-5 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1341 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869170-18-3 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1400 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869170-37-6 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1419 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869170-84-3 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1466 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869171-06-2 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1488 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869171-27-7 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1509 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869172-19-0 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1601 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869172-58-7 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1640 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869173-67-1 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1749 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869175-12-2 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1895 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869175-13-3 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1896 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 869244-27-9 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-2091 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 869168-94-5 869169-59-5 869170-18-3

869170-37-6 869170-84-3 869171-06-2

869171-27-7 869172-19-0 869172-58-7

869173-67-1 869175-12-2 869175-13-3

869244-27-9

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; membrane-associated proteins for diagnosis and therapy of hyperproliferative or autoimmune disorders and their identification using custom microarray)

RN 869168-94-5 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1277 fragment) (9CI) (CA INDEX NAME)

SEQ 1 MMHFKSGLEL TELQNMTVPE DDNISNDSND FTEVENGQIN SKFISDRESR
 51 RSLTNSHLEK KKCDEYIPGT TSLGMSVFNL SNAIMGSGIL GLAFALANTG
 101 ILLFLVLLTS VTLLSIYSIN LLLICKSKETG CMVYEKLGEQ VFGTTGKFVI
 151 FGATSLQNTG AMLSFLFIVK NELPSAIKFL MGKEETFSAW YVDGRVLVVI
 201 VTFGIILPLC LLKNLGYLGY TSGFSLSCMV FFLIVVIYKK FQIPCIIVPEL
 251 NSTISANSTN ADTCTPKYVT FNSKTVYALP TIAFAFVCHP SVLPPIYSELK
 301 DRSQKKMQMV SNISFFAMFV MYFLTAIFGY LTFYDNVQSD LLHKYQSKDD
 351 ILILTVRLAV IVAVILTVPV LFFTVRSSLF ELAKKTKFNL CRHTVVTICIL
 401 LVVINLLVIF IPSMKDIFGV VGVTSANMLI FILPSSLYLK ITDQDGDKGT
 451 QRIWAALFLG LGVLFSLVSI PLVIYDWACS SSSDEGH

RN 869169-59-5 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1341 fragment) (9CI) (CA INDEX NAME)

SEQ 1 KRPSPPAPTA GCPGHGAALG GWEHGRGARA AASRAHRAVG RGRGPGAGLR
 51 AGARSRAAAA GTPGPGLAAG AAFQLLNLLG NVGLFLRSDP SIRGVMLAGR
 101 GLGQGWAYCY QCQSQVPPRS GHCSACRVC I LRRDHHCRLL GRCVGFNGYR
 151 PFLCLLLHAA GVLLHVS VLL GPALSALLRA HTPLHMAALL LLPWLMLLTG
 201 RVSLAQFALA FVTDTCVAGA LLCGAGLLFH GMLLLRGQTT WEWARGQHSY
 251 DLGPCHNLQA ALGPRWALVW LWPFLASPLP GDGITFQTTA DVGHTAS

RN 869170-18-3 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1400 fragment) (9CI) (CA INDEX NAME)

SEQ 1 MAPGRAVAGL LLLAAAGLGG VAEGPGLAFS EDVLSVFGAN LSLSAAQLQH
 51 LLEQMGASR VGVPEPGQLH FNQCLTAEEI FSLHGFSNAT QITSSKFSVI
 101 CPAVLQQLNF HPCEDRPKHK TRPSHSEVWG YGFLSVTIIN LASLLGLILT
 151 PLIKSYPFK ILTFFVGLAI GTLFSNAIFQ LIPEAFGFDP KVDSYVEKAV
 201 AVFGGFYLLF FFERMLKMLL KTYGQNGHTH FGNDNFGPQE KTHQPKALPA
 251 INGVTYANP AVTEANGHIH FDNVSVVSLQ DGKKEPSSCT CLKGPKLSEI
 301 GTIAWMITLC DALHNFIDGL AIGASCTLSL LQGLSTSIAT LCEEFPHELG
 351 DVFILLNAGM STRQALLFNF LSACSCYVGL AFGILVGNNF APNIIFALAG
 401 GMFLYISLAD MFPEMNDMLR EKVTGRKTD FFFMIQNAGM LTGFTAILLI
 451 TLYAGEIELE

RN 869170-37-6 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1419 fragment) (9CI) (CA INDEX NAME)

SEQ 1 MLALRVARGS WGALRGAAWA PGTRPSKRRA CWALLPPVPC CLGCLAERWR
 51 LRPAALGLRL PGIGQRNHCS GAGKAAPRPA AGAGAAAEAP GGQWGPASTP
 101 SLYENPWTIP NMLSMTRIGL APVLGYLIIE EDFNIALGVF ALAGLTDLLD
 151 GFIARNWANQ RSALGSALDP LADKILISIL YVSLTYADLI PVPLTYMIIS
 201 RDVMLIAAVF YVRYRTLPTP RTLAKYFNPC YATARLKPTF ISKVNTAVQL

251 ILVAASLAAP VFNYADSIYL QILWCFTAFT TAASAYSYYH YGRKTVQVIK
301 D

RN 869170-84-3 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1466 fragment) (9CI) (CA
INDEX NAME)

SEQ 1 MEPGDAARPG SGRATGAPPP RLLLLPLLLG WGLRVAAAAS ASSSGAAAED
51 SSAMEELATE KEAEESHQRD SVSLLTFILL LTLTILTIWL FKHRRVRFLH
101 ETGLAMIYGL IVGVILRYGT PATSGRDKSL SCTQEDRAFS TLLVNVSGKF
151 FEYTLKGEIS PGKINSVEQN DMLRKVTFDP EVFFNILLPP IIFHAGYSLK
201 KRHFFRNLS ILAYAF LGTA VSCFIIGNLM YGVVKLMKIM GQLSDKFYTT
251 DCLFFGAIIS ATDPVTVLAI FNELHADVDL YALLFGESVL NDAVAIVLSS
301 SIVAYQPAGL NTHAFDAAAF FKSVGIFLGI FSGSFTMGAV TGVNANVTKF
351 TKLHCFPLLE TALFFLMSWS TFLLAECGF TGVVAVLFCG ITQAHYTYNN
401 LSVESRSRTK QLFEVLHFLA ENFIFSYMGL ALFTFQKHVF SPIFIIGAFV
451 AIFLGRAAHI YPLSFFLNLG RRHKIGWNFQ HMMMFSGLRG AMAFALAIRD
501 TASYARQMMF TTTLLIVFFT VWIIGGGTTP MLSWLNIRVG VEEPSEEDQN
551 EHHWQYFRVG VDPDQDPPP NDSFQVLQGD GPDSARGNRT KQESAWIFRL
601 WYSFDHNYLK PILTHSGPPL TTTLPWCGL LARCLTSPQV YDNQEPLREE
651 DSDFILTEGD LTLTYGDSTV TANGSSSHT ASTSLEGSRR TKSSSEEVLE
701 RDLGMDQKV SSRGTRLVFP LEDNA

RN 869171-06-2 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1488 fragment) (9CI) (CA
INDEX NAME)

SEQ 1 MDDFISISLL SLAMLVGCYV AGIIPLAVNF SEERLKLVTV LGAGLLCGTA
51 LAVIVPEGVH ALYEDILEGK HHQASETHNV IASDKAAEKS VVHEHEHSHD
101 HTQLHAYIGV SLVLGFV FML LVDQIGNSHV HSTDDPEAAR SSNSKITTTL
151 GLVVHAAADG VALGAAASTS QTSVQLIVFV AIMLHKAPAA FGLVSFLMHA
201 GLERNRIRKH LLVFALAAPV MSMVTYLGLS KSSKEALSEV NATGVAMLFS
251 AGTFLYVATV HVLPEVGGIG HSHKPDATGG RGLSRLEVAA LVLGCLIPLI
301 LSVGHQH

RN 869171-27-7 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1509 fragment) (9CI) (CA
INDEX NAME)

SEQ 1 MAASPHTLSS RLLTGCVGGS VWYLERRTIQ DSPHKFLHLL RNVNKQWITF
51 QHFSELKRMV VTQLNRSHNQ QVRPKPEPVA SPFLEKTSSG QAKAEIYEMR
101 PLSPPSLSL S RKPNEKELIE LEPDSVIEDS IDVGKETKEE KRWKEMKLQV
151 YDLP GILARL SKIKLTALVV STTAAGFALA PGPFDWPCFL LTSVGTGLAS
201 CAANSINQFF EVPFDSNMNR TKNRPLVRGQ ISPLLAVSFA TCCAVPGVAI
251 LTLGVNPLTG ALGLFNIFLY TCCYTPLKRI SIANTWVGAV VGAIPPVMGW
301 TAATGSLDAG AFLGGILYS WQPFHFNALS WGLREDYSRG GYCMMSVTHP
351 GLCRRVALRH CLALLVLSAA APVLDITWT FPIMALPINA YISYLGFRFY
401 V DADRSSRR LFFCSLWHL LLLLMLTCK RPSGGGDAGP PPS

RN 869172-19-0 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1601 fragment) (9CI) (CA INDEX NAME)

SEQ 1 MPSRKFADGE VVRGRWPGSS LYYEVEILSH DSTSQLYTVK YKDGTELELK
 51 ENDIKPLTSF RQRKGGSTSS SPSRRRGSR SRSRSPGRP PKSARRSASA
 101 SHQADIKEAR REVEVKLTPL ILKPFGNSIS RYNGEPEHIE RNDAPHKNTQ
 151 EKFSLSQESS YIATQYSLRP RREEVKLKEI DSKEEKYVAK ELAVRTFEVT
 201 PIRAKDLEFG GVPGVFLIMF GLPVFLFLLL LMCKQKDPSL LNFPPPLPAL
 251 YELWETRVFG VYLLWFLIQV LFYLLPIGKV VEGTPLIDGR RLKYRLNGFY
 301 AFILTSAVIG TSLFQGVFHF YVYSHFLQFA LAATVFCVVL SVYLYMRSILK
 351 APRNDLSPAS SGNVYDFFI GRELNPRIGT FDLKYFCELR PGLIGWVVIN
 401 LVMLLAEMKI QDRAVPSLAM ILVNSFQLLY VVDALWNEEA LLTTMDIHD
 451 GFGFMLAFGD LVWVPFIYSF QAFYLVSHPN EVSWPMASLI IVLKLCCGYVI
 501 FRGANSQKNA FRKNPSDPKL AHLKTIHTST GKNLLVSGWW GFVRHPNYLG
 551 DLIMALAWSL PCGFNHILPY FYIIYFTMLL VHREARDEYH CKKKYGVAVE
 601 KYCQRVPYRI FPYIY

RN 869172-58-7 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1640 fragment) (9CI) (CA INDEX NAME)

SEQ 1 MRARPQVCEA LLFALALQTG VCYGIKWLAL SKTPSALALN QTQHCKQLEG
 51 LVSAQVQLCR SNLELMHTVV HAAREVMKAC RRAFADMRWN CSSIELAPNY
 101 LLDLERGTRE SAFVYALSAA AISHAIARAC TSGDLPGCSC GPVPGEPGP
 151 GNRWGGCADN LSYGLLMGAK FSDAPMKVKK TGSQANKLMR LHNSEVGRQA
 201 LRASLEMKCK CHGVSGSCSI RTCWKGLQEL QDVAADLKTR YLSATKVVHR
 251 PMGTRKHLVP KDLDIRPVKD SELVYLQSSP DFCMKNEKVG SHGTQDRQCN
 301 KTSNGSDSCD LMCCGRGYNP YTDREVVERCH CKYHWCCYVT CRRCERTVER
 351 YVCK

RN 869173-67-1 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1749 fragment) (9CI) (CA INDEX NAME)

SEQ 1 CAYVIILMAI YWCTEVIPLA VTSIMPVLLF PLFQILDSRQ VCVQYMKDTN
 51 MLFLGGLIVA VAVERNWLHK RIALRTLLWV GAKPARMLLG FMGVTALLSM
 101 WISNTATTAM MVPIVEAILQ QMEATSAATE AGLELVDK GK AKELPGEPLA
 151 RALPGHNSSL PLPLLANALA TSFSLASRS PPLNTHREKK IENTVVLSP
 201 LGQQEDQERK RLCKAMTLCI CYAASIGGTA TLTGTGPNVV LLGQMNELFP
 251 DSKDLVNFAS WFAFAFPNML VMLLFAWLWL QFVYMRFNFK KSWGCGLESK
 301 KNEKAALKVL QEEYRKLGPL SFAEINVLC FLLVILWFS RDPGFMPGWL
 351 TVAWVEGETK YVSDATVAIF VATLLFIVPS QKPKFNFRSQ TEEERKTPFY
 401 PPPLLDWKVT QEKVPWGIVL LLGGGFALAK GSEASGLSVW MGKQMEPLHA
 451 VPPAAITLIL SLLVAVFTEC TSNVATTTLF LPIFASMSRS IGLNPLYIML
 501 PCTLSASFAF MLPVATPPNA IVFTYGLHKV ADMVKTGVIM NIIGVFCVFL
 551 AVNTWGRAIF DLDHFPDWAN VT

RN 869175-12-2 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1895 fragment) (9CI) (CA INDEX NAME)

SEQ 1 QSYIFVESSH IRDALTWLSQ GQKADGFFEG SGSLLNNAIK HAVVCSALSC
 51 LETAWSSTSE AQGSVVYTKA LLAYAFALAG NKVKRRELLE SLNREAMKEE
 101 DSIHWQRP GK LHEAKTLYSQ PWAPSVEVEM TSYVLLAYLT VQPAPSSIDL
 151 SVASRIVKWI TKQONPQGGF SSTQDTVVAL QALSKYGTAT FTKSEKAALV
 201 TIKSSDTFSK DFQVDDGNCL VLQEVQLPEV PGEYSTTMSG SGCVYLQLQK
 251 QPQIQRTESV TNHVPYIFEK LTHQTLHFSF FVEQDIQIKN LKPATVKAYD
 301 YYETGPCTQS TAKKENPKTL KSIVITHSVP EMNLQCMSYY HGNMSLTFFV
 351 SILCHLLVRI LKEMEK

RN 869175-13-3 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-1896 fragment) (9CI) (CA
 INDEX NAME)

SEQ 1 MAPSLWKGLV GIGLFALAH AFSAAQHRSY MRLTEKEDES LPIDIVLQTL
 51 LAFVTCYGI VHIAGEFKDM DATSELKNKT FDTLRNHPSF YVFNHRGRVL
 101 FRPSDTANSS NQDALSSNTS LKLRKLESLR R

RN 869244-27-9 CAPLUS

CN Membrane protein (human clone WO2005108415-SEQID-2091 fragment) (9CI) (CA
 INDEX NAME)

SEQ 1 MPVQLTTALR VVGTSLFALA VLGGILAAYV TGYQFIHTEK HYLSFGLYGA
 51 ILGLHLLIQS LFAFLEHRRM RRAGQALKLP SPRRGSVLC IAAYQEDPDY
 101 LRKCLRSAQR ISFPDLKVM VVDGNRQEDA YMLDIFHEVL GGTEQAGFFV
 151 WRSNFHEAGE GETEASLQEG MDRVRDVVRA STFSCIMQKW GSKREVMYTA
 201 FKALGDSVDY IQVCDSDTVL DPACTIEMLR VLEEDPQVGG VGGDVQPPGK
 251 GMAVEDDQVQ AAQVRATEAW SVHQRHVSRE Q

L58 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:823914 CAPLUS Full-text

DOCUMENT NUMBER: 143:227326

TITLE: Tumor marker genes for survival prognosis, and a
 method for classifying a tumor cell sample using gene
 expression profiling for diagnosis and therapy

INVENTOR(S): Stratowa, Christian; Koenig, Ulrich; Steinlein, Peter;
 Amatschek, Stefan; Auer, Herbert; Sommergruber,
 Wolfgang; Schreiber, Martin; Gruenfelder, Agnes;
 Pacher-Zavisin, Margit

PATENT ASSIGNEE(S): Medizinische Universitaet Wien, Austria

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| WO 2005076005 | A2 | 20050818 | WO 2005-EP858 | 20050128 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

EP 2004-450020

A 20040130

ED Entered STN: 19 Aug 2005

AB An object of the present invention to provide efficient tools and markers for tumor diagnosis. Another object is providing tumor markers for good and poor prognosis in order to adopt an individual therapy scheme to a certain patient. The inventors conducted cDNA microarray gene expression profiling in cancer patients with long or short overall survival. Thus, the invention provides a method for classifying a cell sample as being a tumor cell comprising detecting a difference in the expression by said cell sample of at least one gene identified as a tumor marker gene for patient survival expectation relative to at least one control cell. The tumors to be classified according to the present invention are preferably selected from the group consisting of breast cancer (BC), lung squamous cell cancer (LSCC), lung adenocarcinoma (LAC) and renal cell cancer (RCC).

IT 391965-05-2

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)

(amino acid sequence; tumor marker genes for survival prognosis, and a
 method for classifying a tumor cell sample using gene expression
 profiling for diagnosis and therapy)

RN 391965-05-2 CAPLUS

CN Epidermal growth factor receptor substrate (human gene eps15) (9CI) (CA
 INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 391965-05-2

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)

(amino acid sequence; tumor marker genes for survival prognosis, and a
 method for classifying a tumor cell sample using gene expression
 profiling for diagnosis and therapy)

RN 391965-05-2 CAPLUS

CN Epidermal growth factor receptor substrate (human gene eps15) (9CI) (CA
 INDEX NAME)

SEQ 1 MAAAQSLT QLSSGNPVYE KYRQVDTGN TGRVLASDAA AFLKKSGLPD
 51 LILGKIWDLA DTDGKGILNK QEFFVALRLV ACAQNGLEVS LSSLNLAVPP
 101 PRFHDTSPL LISGTSAAEL PWAVKPEDKA KYDAIFDSLS PVNGFLSGDK
 151 VKPVLNSKL PVDILGRVWE LSDIDHDGML DRDEFAMF LVYCALEKEP
 201 VPMSLPPALV PPSKRKTWV SPAEKAKYDE IFLKTDKMD GFVSGLEVRE
 251 IFLKTGLPST LLAHIWSLCD TKDCGKLSKD QFALAFHLIS QKLIKIDPP
 301 HVLTPMIPP SDRASLQKNI IGSSPVADFS AIKELDTLNN EIVDLQREKN
 351 NVEQDLKEKE DTKQRTSEV QDLQDEVQRE NTNQLQKLAQ KQVQELLDE
 401 LDEQKALQEE QLKEVRKKCA EEAQLISSLK AELTSQESQI STYEEELAKA
 451 REELSRLQEE TAELEESVES GKAQLEPLQQ HLQDSQQEIS SMQMKLMEMK
 501 DLENHNSQLN WCSSPHSILV NGATDYCSLS TSSSETANLN EHVEGQSNLE
 551 SEPIHQESPA RSSPELLPSG VTDENEVTTA VTEKVCSELD NNRHSKEEDP
 601 FNVDSSSLTG PVADTNLDFQ QSDPFVGSDF FKDDPFGKID PFGGDPFKGS

651 DPFASDCFFR QSTDPFATSS TDPFSAANNS SITSVETLKH NDPFAPGGTV
 701 VAASDSATDP FASVFGNESF GGGFADFSTL SKVNNEDPFR SATSSSVSNV
 751 VITKNVFEET SVKSEDEPPA LPPKIGTPTR PCPLPPGKRS INKLDSPDPF
 801 KLNDPFQPPF GNDSPKEKDP EMFCDPFTSA TTTTNKEADP SNFANFSAYP
 851 SEEDMIEWAK RESEREEEQR LARLNQQEQE DLELAIALSK SEISEA

L58 ANSWER 10 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:671727 CAPLUS Full-text

DOCUMENT NUMBER: 143:166667

TITLE: The curcuminoids- and anthocyanins-responsive genes in human adipocytes and their use in screenings of anti-obesity and anti-diabetes drugs

INVENTOR(S): Ueno, Yuki; Tsuda, Takanori; Takanori, Hitoshi; Yoshikawa, Toshikazu; Osawa, Toshihiko

PATENT ASSIGNEE(S): Biomarker Science Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 85 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|------------|
| JP 2005198640 | A | 20050728 | JP 2004-53258 | 20040227 |
| PRIORITY APPLN. INFO.: | | | JP 2003-394758 | A 20031125 |

ED Entered STN: 29 Jul 2005

AB The curcuminoids- and anthocyanins-responsive gene expression profiles in adipocytes have been revealed. The curcuminoids- and anthocyanins- responsive genes are designed to be used as the index markers in the screenings of the substances that can affect the gene expression patterns in obesity and diabetes. These substances can be the candidates of anti-obesity and anti-diabetes drugs. Therefore, the groups of curcuminoids- and anthocyanins-responsive genes are intended to be used as markers in a form of kit such as DNA chip for the screening of anti-obesity and anti-diabetes drugs.

IT 483195-89-7 483554-45-6 487613-99-0

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; curcuminoids- and anthocyanins-responsive genes in human adipocytes and their use in screenings of anti-obesity and anti-diabetes drugs)

RN 483195-89-7 CAPLUS

CN Acyltransferase, acetyl coenzyme A (Rattus norvegicus) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 483554-45-6 CAPLUS

CN Kinase (phosphorylating), choline (Rattus norvegicus strain Wistar gene CKR) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 487613-99-0 CAPLUS

CN Lysosomal acid lipase (Rattus sp. gene lysosomal acid lipase, LAL) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 483195-89-7 483554-45-6 487613-99-0

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)
(amino acid sequence; curcuminoids- and anthocyanins-responsive genes
in human adipocytes and their use in screenings of anti-obesity and
anti-diabetes drugs)

RN 483195-89-7 CAPLUS

CN Acyltransferase, acetyl coenzyme A (Rattus norvegicus) (9CI) (CA INDEX
NAME)

SEQ 1 MHRLQVVLGH LAGRSESSSA LQAAPCSAGF PQASASDVVV VHQRTPIGR
51 AGRGGFKDIT PDELLSAVLT AVLQDVKPKP ECLGDISVGN VLQPGAGAAM
101 ARIAQFLSGI PETVPLSAVN RQCSSGLQAV ANIAGGIRNG SYDIGMACGV
151 ESMTLSERGN PGNISSRLLE NEKARDCLIP MGITSENVAE RFGISRQKQD
201 AFALASQQA ASAQSKGCFR AEIVPVTITV LDDKGDRKTI TVSQDEGVRP
251 STTMEGLAKL KPAFKDGGST TAGNSSQVSD GAAAVLLARR SKAEELGLPI
301 LGVLRSYAVV GVPPDIMGIG PAYAIPALQ KAGLTVNDID IFEINEAFAS
351 QALYCVEKLG IPAQKVNPLG GAIALGHPLG CTGARQVVTL LNELKRRGR
401 AYGVVSMCIG TGMGAAVFE YPGN

RN 483554-45-6 CAPLUS

CN Kinase (phosphorylating), choline (Rattus norvegicus strain Wistar gene
CKR) (9CI) (CA INDEX NAME)

SEQ 1 MKTKFCTGGE AEPSPLGLLL SCGGSAAPTP GVGQQRDAAG ELESQQLGGR
51 SQPLALPPPP PPPLPLPPPP SPPLADEQPE PRTRRRAYLW CKEFLPGAWR
101 GLREDQFHIS VIRGGLSNML FQCSLPDSIA SVGDEPRKVL LRLYGAILKM
151 GAEAMVLESV MFAILAERSL GPKLYGIFPQ GRLEQFIPSR RLDTEELCLP
201 DISAIEIAKM ATFHGMKMPF NKEPKWLFGT MEKYLNQVLR LKFSREARVQ
251 QLHKFLSYNL PLELENLRS LQYTRSPVVF CHNDCQEGNI LLLEGQENSE
301 KQKLMLIDFE YSSYNYRGFD IGNHFCEWY DYTYEKYPFF RANIQKYPTR
351 KQQLHFISSY LTTFQND FES LSSEEQSATK EDMLEVNRF ALASHFLWGL
401 WSIVQAKISS IEFGYMEYQ ARFDAYFDQK RKLGV

RN 487613-99-0 CAPLUS

CN Lysosomal acid lipase (Rattus sp. gene lysosomal acid lipase, LAL) (9CI)
(CA INDEX NAME)

SEQ 1 MQLLGRVICF VVGILLSGGP TGTISAVDPE ANMNVTEIIM HWGYPEHSVQ
51 TGDGYILGVH RIPHGRKNQF DKGPKPVVYL QWRHGFLADS SNWVTNIDNN
101 SLGFILADAG FDVWMGNSRG NTWSRKHKTL SVSQDEYWAF SFDEMAKYDL
151 PASINYILNK TGQEQLYNVG HSQGCTIGFI AFSQMPPELAK KVKMFFALAP
201 VLSLNFASGP MVKLGRLPDL LLEDLFGQKQ FLPQSAMVKW LSTHICTHVI
251 MKELCANIFF LICGFNEKNL NMSRVDVYTT HCPAGTSVQN MVHWTQVVKY
301 HKLQAFDWGS SDKNYFHYNQ SYPPLYSIKD MQLPTALWSG GKDWLADTSD
351 INILLTEIPT LVYHKNIPW DHLDFIWGLD APWRLYNEVV SLMKKYQ

L58 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:546857 CAPLUS Full-text

DOCUMENT NUMBER: 143:76819

TITLE: Single chain Igs specific for various antigens

including tumor and B cell antigens, recombinant production and immunological activities thereof

INVENTOR(S): Ledbetter, Jeffrey A.; Hayden-Ledbetter, Martha; Thompson, Peter A.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 338 pp., Cont.-in-part of U.S. Ser. No. 53,530.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------------------|-------------|
| US 2005136049 | A1 | 20050623 | US 2003-627556 | 20030726 |
| US 2003133939 | A1 | 20030717 | US 2002-53530 | 20020117 |
| CA 2533921 | A1 | 20050224 | CA 2003-2533921 | 20031224 |
| WO 2005017148 | A1 | 20050224 | WO 2003-US41600 | 20031224 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| AU 2003300092 | A1 | 20050307 | AU 2003-300092 | 20031224 |
| EP 1654358 | A1 | 20060510 | EP 2003-800349 | 20031224 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| BR 2003018417 | A | 20060725 | BR 2003-18417 | 20031224 |
| CN 1852976 | A | 20061025 | CN 2003-80110470 | 20031224 |
| NO 2006000764 | A | 20060420 | NO 2006-764 | 20060217 |
| PRIORITY APPLN. INFO.: | | | | |
| | | | US 2001-367358P | P 20010117 |
| | | | US 2002-53530 | A2 20020117 |
| | | | US 2003-627556 | A 20030726 |
| | | | WO 2003-US41600 | W 20031224 |

ED Entered STN: 24 Jun 2005

AB The invention provides recombinant single chain antibodies (scFvs) composed of: (a) variable regions of heavy or light chain Igs that may contain a linker sequence; (b) hinge regions of Igs; and (c) CH2 and CH3 constant regions of Igs. Specifically, the invention relates said scFvs may contain: (a) wild-type or mutant/variant variable region of Igs, wherein amino acid substitutions lead to an increase in stability and/or expression of scFvs; (b) wild-type or mutant hinge regions of IgG, IgA or IgE isolated from various organisms that contain zero, one, or two cysteine residues; and (c) wild-type or mutant/truncated IgG or IgA. The invention also relates that said recombinant scFv possess a variable region that bind specific antigens, such as tumor antigens, B cells antigens or B cell differentiation antigens, and that said scFvs are capable of at least one immunol. activity, such as antibody-dependent cellular cytotoxicity (ADCC) and/or complement-dependent cytotoxicity (CDC). The invention further relates that said recombinant scFvs may be coupled to a drug, toxin, immunomodulator, label and/or effector moiety. The invention also provides approx. 103 scFv constructs generated from the following hybridomas: murine 2H7 (anti-human CD20), 4.4.220 (anti-human CD40), 2e12 (anti-human CD28), 10A8 (anti-human CD152/CTLA-4), G19-4 (anti-human CD3), L6 (anti-carcinoma), FC2-2 (anti-CD16), UCHL-1 (anti-CD45RO), HD37

(anti-CD19), G19-4 (anti-CD3), and 5B9 (anti-human 4-1BB/CD137), and rat 1D8 (anti-murine 4-1BB/CD137). In the examples, the invention described the recombinant production of disclosed scFvs for various antigens. The sequences for various Ig regions used in construction of scFvs were presented. The immunol. activities of these scFvs were demonstrated.

IT 855047-13-1 855047-23-3

RL: PRP (Properties)

(unclaimed protein sequence; single chain Igs specific for various antigens including tumor and B cell antigens, recombinant production and immunol. activities thereof)

RN 855047-13-1 CAPLUS

CN 152: PN: US20050136049 SEQID: 152 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 855047-23-3 CAPLUS

CN 162: PN: US20050136049 SEQID: 162 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 855047-13-1 855047-23-3

RL: PRP (Properties)

(unclaimed protein sequence; single chain Igs specific for various antigens including tumor and B cell antigens, recombinant production and immunol. activities thereof)

RN 855047-13-1 CAPLUS

CN 152: PN: US20050136049 SEQID: 152 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 GQPREPQVYT LPPSREEMTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN
51 YKTPPVLD S DGSFALASKL TVDKSRWQQG NVFSCSV MHE ALHNHYTQKS
101 LSLSPGK

RN 855047-23-3 CAPLUS

CN 162: PN: US20050136049 SEQID: 162 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MDFQVQIFSF LLISASVIAA RGQIVLSQSP AILSASPGEK VTMTCRASSS
51 VSYMHWYQQK PGSSPKPWIY APSNLASGVP ARFSGSGSGT SYSLTISRVE
101 AEDAATYYCQ QWSFNPTTFG AGTKLELKDG GGSGGGGSGG GGSSQAYLQQ
151 SGAELVRPGA SVKMSCKASG YTFTSYNMHW VKQTPRQGLE WIGAIYPGNG
201 DTSYNQKFKG KATLTVDKSS STAYMQLSSL TSEDSAVYFC ARVVYYSNSY
251 WYFDVWGTGT TVTVSSDQEP KSSDKTHTSP PSPAPELLGG PSVFLFPPKP
301 KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN
351 STYRVSVLT VLHQDWLNGK EYCKVSNKA LPAPIEKTIS KAKGQPREPQ
401 VYTLPPSREE MTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTPPV
451 LDSDGSFALA SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK

L58 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:409130 CAPLUS Full-text

DOCUMENT NUMBER: 142:458903

TITLE: Sequences of KDR and VEGF/KDR binding peptides, peptide dimers, and multimeric complexes and their use in diagnosis and therapy

INVENTOR(S): Sato, Aaron K.; Sexton, Daniel J.; Dransfield, Daniel T.; Ladner, Robert C.; Arbogast, Christophe; Bussat, Philippe; Fan, Hong; Khurana, Sudha; Linder, Karen E.;

Marinelli, Edmund R.; Nanjappan, Palaniappa; Nunn, Adrian D.; Pillai, Radhakrishna; Pochon, Sibylle; Ramalingam, Kondareddiar; Shrivastava, Ajay; Song, Bo; Swenson, Rolf E.; Von Wronski, Mathew A.

PATENT ASSIGNEE(S): Dyax Corporation, USA; Bracco International B. V.

SOURCE: U.S. Pat. Appl. Publ., 373 pp., Cont.-in-part of U.S. Ser. No. 382,082, abandoned.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| US 2005100963 | A1 | 20050512 | US 2003-661156 | 20030911 |
| WO 2003074005 | A2 | 20030912 | WO 2003-US6731 | 20030303 |
| WO 2003074005 | A8 | 20050721 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005250700 A1 20051110 US 2004-939890 20040913

PRIORITY APPLN. INFO.: US 2002-360851P P 20020301

US 2003-440411P P 20030115

US 2003-382082 B2 20030303

WO 2003-US6731 A2 20030303

US 2003-661156 A2 20030911

OTHER SOURCE(S): MARPAT 142:458903

ED Entered STN: 13 May 2005

AB The present invention provides polypeptides, peptide dimer, and multimeric complexes comprising at least one binding moiety for KDR or VEGF/KDR complex, which have a variety of uses wherever treating, detecting, isolating or localizing angiogenesis is advantageous. Particularly disclosed are synthetic, isolated polypeptides capable of binding KDR or VEGF/KDR complex with high affinity (e.g., having a $KD < 1 \mu M$), and dimer and multimeric constructs comprising these polypeptides.

IT 735282-02-7

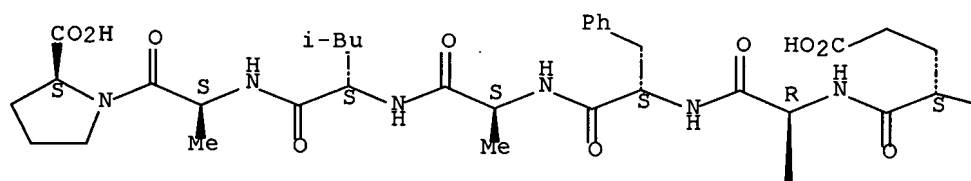
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; sequences of KDR and VEGF/KDR binding peptides, peptide dimers, and multimeric complexes and their use in diagnosis and therapy)

RN 735282-02-7 CAPLUS

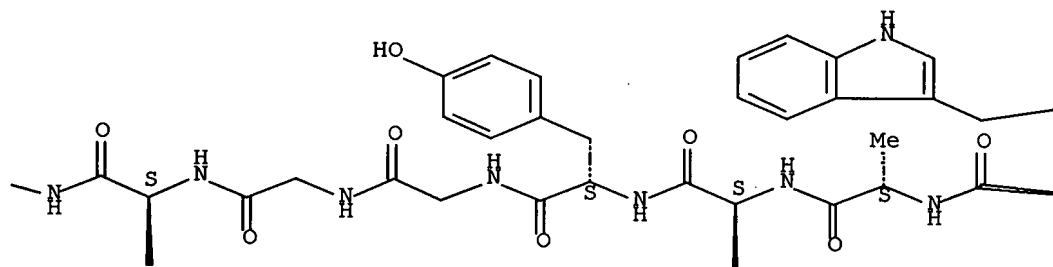
CN L-Proline, glycyl-L-seryl-L-threonyl-L-methionyl-L-methionyl-L-cysteinyl-L-tryptophyl-L-prolyl-L-alanyl-L-histidyl-L-tyrosylglycylglycyl-L- α -aspartyl-L- α -glutamyl-L-cysteinyl-L-phenylalanyl-L-alanyl-L-leucyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

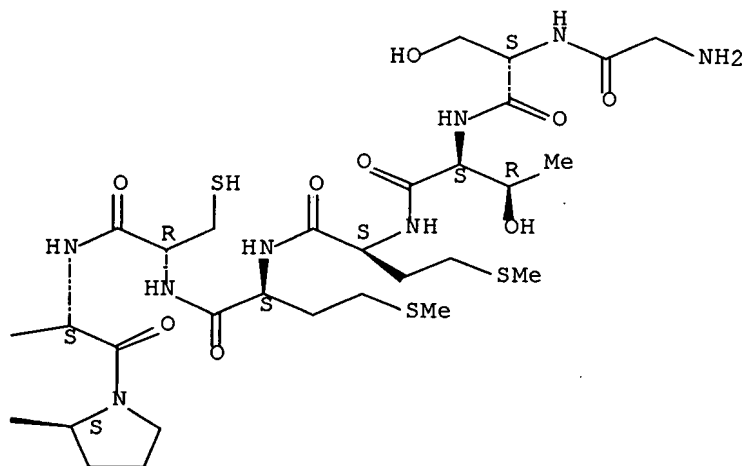
PAGE 1-A



PAGE 1-B



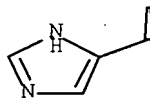
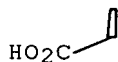
PAGE 1-C



PAGE 2-A



PAGE 2-B



IT 735282-02-7

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; sequences of KDR and VEGF/KDR binding peptides, peptide dimers, and multimeric complexes and their use in diagnosis and therapy)

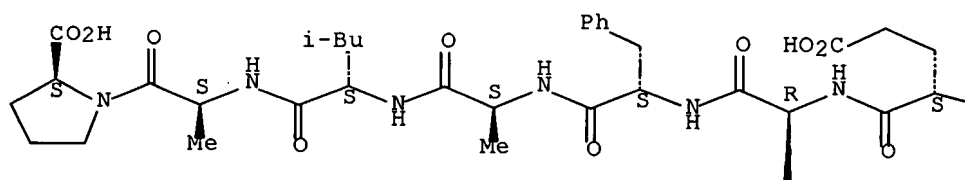
RN 735282-02-7 CAPLUS

CN L-Proline, glycyl-L-seryl-L-threonyl-L-methionyl-L-methionyl-L-cysteinyl-L-tryptophyl-L-prolyl-L-alanyl-L-histidyl-L-tyrosylglycylglycyl-L- α -aspartyl-L- α -glutamyl-L-cysteinyl-L-phenylalanyl-L-alanyl-L-leucyl-L-alanyl- (9CI) (CA INDEX NAME)

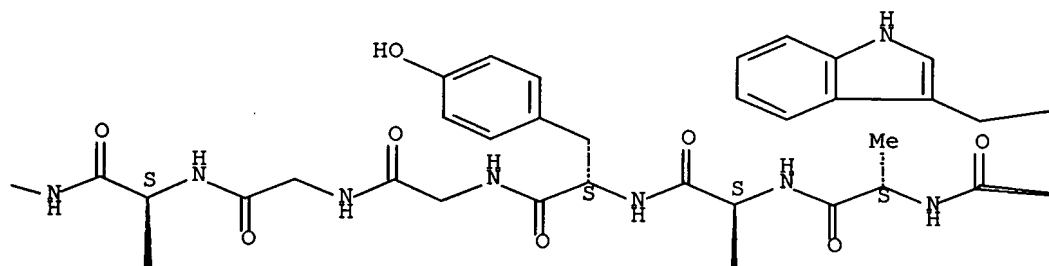
SEQ 1 GSTMMCWPAH YGGDECFALA P

Absolute stereochemistry.

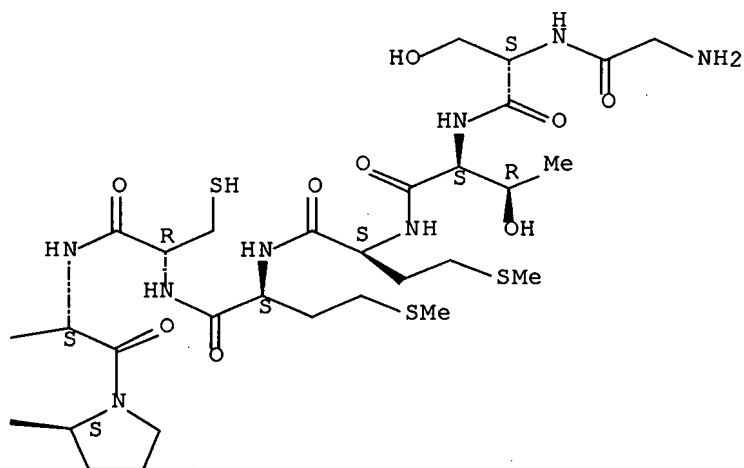
PAGE 1-A



PAGE 1-B



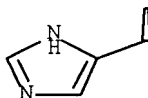
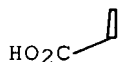
PAGE 1-C



PAGE 2-A



PAGE 2-B



L58 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:371373 CAPLUS Full-text
 DOCUMENT NUMBER: 142:428781
 TITLE: Binding domain-immunoglobulin fusion proteins for eliciting ADCC/CDC to treat cancer and autoimmune disease
 INVENTOR(S): Ledbetter, Jeffrey A.; Hayden-Ledbetter, Martha S.; Thompson, Peter A.
 PATENT ASSIGNEE(S): Trubion Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 522 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
| WO 2005037989 | A2 | 20050428 | WO 2003-US24918 | 20030726 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, | | | | |

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
 PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003264021 A1 20050505 AU 2003-264021 20030726

PRIORITY APPLN. INFO.:

WO 2003-US24918 A 20030726

ED Entered STN: 29 Apr 2005

AB The invention relates to novel binding domain-Ig fusion proteins that feature a binding domain for a cognate structure such as an antigen, a counterreceptor or the like, a wild-type IgG1, IgA or IgE hinge region polypeptide or a mutant IgG1 hinge region polypeptide having either zero, one or two cysteine residues, and Ig CH2 and CH3 domains, and that are capable of ADCC and/or CDC while occurring predominantly as polypeptides that are compromised in their ability to form disulfide-linked multimers. The fusion proteins can be recombinantly produced at high expression levels. Also provided are related compns. and methods, including cell surface forms of the fusion proteins and immunotherapeutic applications of the fusion proteins and of polynucleotides encoding such fusion proteins.

IT **850982-24-0P 850982-34-2P**

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; binding domain-Ig fusion proteins for eliciting ADCC/CDC to treat cancer and autoimmune disease)

RN 850982-24-0 CAPLUS

CN Immunoglobulin G1 (human clone WO2005/037989A2HuUgG1MTCH3A405A407
 γ1-chain CH3 region derivative fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 850982-34-2 CAPLUS

CN Immunoglobulin, anti-(human CD20 (antigen)) (Mus musculus hybridoma 2H7 clone WO2005/037989A22H7scFvMTH(SSS)WCH2MTCH3A405A407 single-chain) fusion protein with immunoglobulin G1 (human γ1-chain hinge-CH2-CH3 region derivative fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **850982-24-0P 850982-34-2P**

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; binding domain-Ig fusion proteins for eliciting ADCC/CDC to treat cancer and autoimmune disease)

RN 850982-24-0 CAPLUS

CN Immunoglobulin G1 (human clone WO2005/037989A2HuUgG1MTCH3A405A407
 γ1-chain CH3 region derivative fragment) (9CI) (CA INDEX NAME)

SEQ 1 GQPREPQVYT LPPSREEMTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN
 51 YKTTTPVLDS DGSFALASKL TVDKSRWQQG NVFSCSVME ALHNHYTQKS
 101 LSLSPGK

RN 850982-34-2 CAPLUS

CN Immunoglobulin, anti-(human CD20 (antigen)) (Mus musculus hybridoma 2H7

clone WO2005/037989A22H7scFvMTH(SSS)WTCH2MTCH3A405A407 single-chain)
 fusion protein with immunoglobulin G1 (human γ 1-chain hinge-CH2-CH3
 region derivative fragment) (9CI) (CA INDEX NAME)

SEQ 1 MDFQVQIFSF LLISASVIIA RGQIVLSQSP AILSASPGEK VTMTCRASSS
 51 VSYMHYQQK PGSSPKPWIY APSNLASGVP ARFSGSGSGT SYSLTISRVE
 101 AEDAATYYCQ QWSFNPTTFG AGTKLELKDG GSGGGGSGG GGSSQAYLQQ
 151 SGAELVRPGA SVKMCKASG YTFTSYNMHW VKQTPRQGLE WIGAIYPGNG
 201 DTSYNQKFKG KATLTVDKSS STAYMQLSSL TSEDSAVYFC ARVVYYSNSY
 251 WYFDVWGTGT TVTVSSDQEP KSSDKTHTSP PSPAPELLGG PSVFLFPPKP
 301 KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN
 351 STYRVSVLT VLHQDWLNGK EYCKVSNKA LPAPIEKTIS KAKGQPREPQ
 401 VYTLPPSREE MTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTTPV
 451 LDSDGSFALA SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK

L58 ANSWER 14 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:347145 CAPLUS Full-text

DOCUMENT NUMBER: 142:368792

TITLE: Cancer-linked genes and derived amino acid
 sequences and their use as targets for chemotherapy
 INVENTOR(S): Cain, Colyn B.; Horrigan, Steven K.; Strovel, Jeffrey
 W.

PATENT ASSIGNEE(S): Avalon Pharmaceuticals, Inc, USA

SOURCE: PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| WO 2005035724 | A2 | 20050421 | WO 2004-US33072 | 20041007 |
| WO 2005035724 | A3 | 20060608 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |

PRIORITY APPLN. INFO.: US 2003-509515P P 20031008

ED Entered STN: 22 Apr 2005

AB Twenty cancer-linked gene transcript sequences are disclosed, along with processes for assaying potential antitumor agents based on their modulation of the expression of these cancer-linked genes. Also disclosed are antibodies that react with the disclosed polypeptides and methods of using the antibodies to treat cancerous conditions, such as by using the antibody to target cancerous cells in vivo for purposes of delivering therapeutic agents thereto. Also described are methods of diagnosing using the gene sequences.

IT 849581-12-0 849581-13-1 849581-14-2
 849581-15-3 849581-16-4 849581-17-5

849581-18-6 849581-19-7 849581-22-2

849581-24-4

RL: PRP (Properties)

(unclaimed protein sequence; cancer-linked genes and derived amino acid sequences and their use as targets for chemotherapy)

RN 849581-12-0 CAPLUS

CN 348: PN: WO2005035724 SEQID: 366 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 849581-13-1 CAPLUS

CN 349: PN: WO2005035724 SEQID: 367 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 849581-14-2 CAPLUS

CN 350: PN: WO2005035724 SEQID: 368 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 849581-15-3 CAPLUS

CN 351: PN: WO2005035724 SEQID: 369 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 849581-16-4 CAPLUS

CN 352: PN: WO2005035724 SEQID: 370 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 849581-17-5 CAPLUS

CN 353: PN: WO2005035724 SEQID: 371 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 849581-18-6 CAPLUS

CN 354: PN: WO2005035724 SEQID: 372 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 849581-19-7 CAPLUS

CN 355: PN: WO2005035724 SEQID: 373 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 849581-22-2 CAPLUS

CN 358: PN: WO2005035724 SEQID: 376 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 849581-24-4 CAPLUS

CN 360: PN: WO2005035724 SEQID: 378 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 849581-12-0 849581-13-1 849581-14-2

849581-15-3 849581-16-4 849581-17-5

849581-18-6 849581-19-7 849581-22-2

849581-24-4

RL: PRP (Properties)

(unclaimed protein sequence; cancer-linked genes and derived amino acid sequences and their use as targets for chemotherapy)

RN 849581-12-0 CAPLUS

CN 348: PN: WO2005035724 SEQID: 366 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MEVEAVCGGA GEVEAQSDP APAFSKAPGS AGHYELPWVE KYRPVKLNEI
 51 VGNEDTVSRL EVFAREGNVP NIIIAGPPGT GKTTSLILCLA RALLGPALKD
 101 AMLELNASND RGIDVVRNKI KMFAQQKVTI PKGRHKIIIL DEADSMTDGA
 151 QQALRRIMEI YSKTTRFALA CNASDKIIEP IQSRCAVLRY TKLTDAQILT

201 RLMNVIEKER VPYTDDGLEA IIFTAQGDMR QALNNLQSTF SGFGFINSEN
 251 VFKVCDEPHP LLVKEMIQC VNANIDEAYK ILAHLWHLGY SPEDIIGNIF
 301 RVCKTFQMAE YLKLEFIKEI GYTHMKIAEG VNSLLQMAGL LARLCQKTMA
 351 PVAS

RN 849581-13-1 CAPLUS

CN 349: PN: WO2005035724 SEQID: 367 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 SEAWVAIRTR RRGGARMEVE AVCGGAGEVE AQSDPAPAF SKAPGSAGHY
 51 ELPWVEKYRP VKLNEIVGNE DTVSRLEVFA REGNVPNIII AGPPGTGKTT
 101 SILCLARALL GPALKDAMLE LNASNDRGID VVRNKKMFMA QQKVTLPKGR
 151 HKIIILDEAD SMTDGAQQAL RRTMEIYSKT TRFALACNAS DKIIIEPIQSR
 201 CAVLRYTKLT DAQILTRLMN VIEKERVYPY DDGLEAIIFT AQGDMRQALN
 251 NLQSTFLRIW LH

RN 849581-14-2 CAPLUS

CN 350: PN: WO2005035724 SEQID: 368 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MEVEAVCGGA GEVEAQSDP APAFSKAPGS AGHYELPWVE KYRPVKLNEI
 51 VGNEDTVSRL EVFAREGNVP NIIIAGPPGT GKTTSILCLA RALLGPALKD
 101 AMLELNASND RGIDVVRNKI KMFAQQKVTI PKGRHKIIIL DEADSMTDGA
 151 QQALRRTMEI YSKTTRFALA CNASDKIIEP IQSRCVRLRY TKLTDAQILT
 201 RLMNVIEKER VPYTDDGLEA IIFTAQGDMR QALNNLQSTF LRIWLH

RN 849581-15-3 CAPLUS

CN 351: PN: WO2005035724 SEQID: 369 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MEVEAVCGGA GEVEAQSDP APAFSKAPGS AGHYELPWVE KYRPVKLNEI
 51 VGNEDTVSRL EVFAREGNVP NIIIAGPPGT GKTTSILCLA RALLGPALKD
 101 AMLELNASND SMTDGAQQAL RRTMEIYSKT TRFALACNAS DKIIIEPIQSR
 151 CAVLRYTKLT DAQILTRLMN VIEKERVYPY DDGLEAIIFT AQGDMRQALN
 201 NLQSTFSGFG FINSENVFKV CDEPHPLLK EMIQHCNVAN IDEAYKILAH
 251 LWHLGYSPED IIGNIFRVCK TFQMAEYKL EFIKEIGYTH MKIAEGVNSL
 301 LQMAGLLARL CQKTMAPVAS

RN 849581-16-4 CAPLUS

CN 352: PN: WO2005035724 SEQID: 370 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MLELNASNDR GIDVVRNKKI MFAQQKVTL P KGRHKIIILD EADSMTDGAQ
 51 QALRRTMEIY SKTTRFALAC NASDKIIEPI QSRCVRLRYT KLTDQAQILT
 101 LMNVIEKERV PYTDDGLEAI IFTAQGDMRQ ALNNLQSTFL RIWLH

RN 849581-17-5 CAPLUS

CN 353: PN: WO2005035724 SEQID: 371 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MCPTSSLRGI DVVRNKKMF AQQKVTLPKG RHKIIILDEA DSMTDGAQQA
 51 LRRTMEIYSK TTRFALACNA SDKIIPIQS RCAVLRYSKL TDAQILTRLM
 101 NVIEKERVYPY TDDGLEAIF TAQGD MRQAL NNLQSTFLRI WLH

RN 849581-18-6 CAPLUS

CN 354: PN: WO2005035724 SEQID: 372 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MLELNASNDS MTDGAQQALR RTMEIYSKTT RFALACNASD KIIPIQSRCAV
 51 AVLRYTKLTD AQILTRLMNV IEKERVYPYTD DGLEAIIIFTA QGD MRQALNN
 101 LQSTFLRIWL H

RN 849581-19-7 CAPLUS

CN 355: PN: WO2005035724 SEQID: 373 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MCPTSSLRMT DGAQQALRRT MEIYSKTTTF ALACNASDKI IEPIQSRCAV
 51 LRYTKLTDAQ ILTRLMNVIE KERVYPYTDG LEAIIIFTA QGD MRQALNNLQ
 101 STFLRIWLH

RN 849581-22-2 CAPLUS

CN 358: PN: WO2005035724 SEQID: 376 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MEVEAVCGGA GEVEAQSDP APAFSKAPGS AGHYELPWVE KYRPVKLNEI
 51 VGNEDTVSRL EVFAREGNVP NIIIAGPPGT GKTTSLCLLA RALLGPALKD
 101 AMLELNASND RGIDVVRNKI KMFAQQKVTLPKGRHKIIIL DEADSMTDGA
 151 QQALRRTMEI YSKTTTFALA CNASDKIIGA EQPAVHLSQD LASLTGENVVF
 201 KVCDEPHPLL VKGDDPALCE CQH

RN 849581-24-4 CAPLUS

CN 360: PN: WO2005035724 SEQID: 378 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 LNLCHIEGLER TNSHKCDGSP CRSWFSMTDG AQQALRRTME IYSKTTTFAL
 51 ACNASDKIIE PIQSRCAVLR YTKLTDAQIL TRLMNVIEKE RVPYTDGGL
 101 AIIIFTAQGD MRQGDVVRNK IKMFAQQKVT LPKGRHKIIIL LDEAD

L58 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:158798 CAPLUS Full-text

DOCUMENT NUMBER: 142:259970

TITLE: Immunoglobulin chimeric binding constructs and their immunotherapeutic applications

INVENTOR(S): Ledbetter, Jeffrey A.; Hayden-Ledbetter, Martha S.; Thompson, Peter A.

PATENT ASSIGNEE(S): Trubion Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 590 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------------------|-------------|
| WO 2005017148 | A1 | 20050224 | WO 2003-US41600 | 20031224 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 2005136049 | A1 | 20050623 | US 2003-627556 | 20030726 |
| CA 2533921 | A1 | 20050224 | CA 2003-2533921 | 20031224 |
| AU 2003300092 | A1 | 20050307 | AU-2003-300092 | 20031224 |
| EP 1654358 | A1 | 20060510 | EP 2003-800349 | 20031224 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| BR 2003018417 | A | 20060725 | BR 2003-18417 | 20031224 |
| CN 1852976 | A | 20061025 | CN 2003-80110470 | 20031224 |
| NO 2006000764 | A | 20060420 | NO 2006-764 | 20060217 |
| PRIORITY APPLN. INFO.: | | | US 2003-627556 | A 20030726 |
| | | | US 2001-367358P | P 20010117 |
| | | | US 2002-53530 | A2 20020117 |
| | | | WO 2003-US41600 | W 20031224 |

ED Entered STN: 24 Feb 2005

AB The invention relates to novel binding domain-Ig fusion proteins that feature (1) a binding domain for a cognate structure such as an antigen, a counterreceptor or the like, (2) a wild-type IgG, IgA or IgE hinge-acting region, or a mutant IgG1 hinge region polypeptide having either zero, one or two cysteine residues, and (3) Ig CH2 and CH3 domains. Parent monoclonal antibody Fv single-chain binding moieties include murine 2H7 (anti-human CD20), 40.2.220 (anti-human CD40), 2E12 (anti-human CD28), 10A8 (anti-human CD152/CTLA-4), G19-4 (anti-human CD3), L6 (anti-carcinoma), FC2-2 (anti-CD16), UCHL-1 (anti-CD45RO), HD37 (anti-CD19), G19-4 (anti-CD3), and 5B9 (anti-human 4-1BB/CD137), and rat 1D8 (anti-murine 4-1BB/CD137). The fusion proteins are capable of antibody-dependent cellular cytotoxicity (ADCC) and/or complement-dependent cytotoxicity (CDC) while occurring predominantly as polypeptides that are compromised in their ability to form disulfide-linked multimers. The fusion proteins can be recombinantly produced at high expression levels. Also provided are related compns. and methods, including cell surface forms of the fusion proteins and immunotherapeutic applications of the fusion proteins and of polynucleotides encoding such fusion proteins.

IT 845954-69-0 845954-71-4

RL: PRP (Properties)

(unclaimed protein sequence; Ig chimeric binding constructs and their immunotherapeutic applications)

RN 845954-69-0 CAPLUS

CN 25: PN: WO2005017148 PAGE: 341 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 845954-71-4 CAPLUS

CN 35: PN: WO2005017148 PAGE: 346 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 845954-69-0 845954-71-4

RL: PRP (Properties)

(unclaimed protein sequence; Ig chimeric binding constructs and their immunotherapeutic applications)

RN 845954-69-0 CAPLUS.

CN 25: PN: WO2005017148 PAGE: 341 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 GQPREPQVYT LPPSREEMTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN
 51 YKTPPVLDL DGSFALASKL TVDKSRWQQG NVFSCSVME ALHNHYTQKS
 101 LSLSPGK

RN 845954-71-4 CAPLUS

CN 35: PN: WO2005017148 PAGE: 346 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MDFQVQIFSF LLISASVILIA RGQIVLSQSP AILSASPGEK VTMTCRASSS
 51 VSYMHWYQQK PGSSPKPWIY APSNLAGVVP ARFSGSGSGT SYSLTISRVE
 101 AEDAATYYCQ QWSFNPPTFG AGTKLELKDQ GSGGGGSGG GGSSQAYLQQ
 151 SGAELVRPGA SVKMSCKASG YTFTSYNMHW VKQTPRQGLE WIGAYPGNGD
 201 TSYNQKFKGK ATLTVDKSSS TAYMQLSSLT SEDSAVFCA RVVYYSNSYW
 251 YFDVWGTGTT VTVSSDQEPK SSDKTHTSPP SPAPELLGGP SVFLFPPKPK
 301 DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS
 351 TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV
 401 YTLPPSREEM TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTPPVVL
 451 DSDGSFALAS KLTVDKSRWQ QGNVFCSCVM HEALHNHYTQ KSLSL

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L58 ANSWER 16 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:139363 CAPLUS Full-text

Correction of: 2004:634055

DOCUMENT NUMBER: 142:213430

Correction of: 141:168996

TITLE: Polynucleotides and polypeptides associated with the
 NF- κ B signaling pathway in human THP-1 cells and
 their use in diagnosis and therapy

INVENTOR(S): Nadler, Steven G.; Neubauer, Michael G.; Feder, John
 N.; Carman, Julie

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 238 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2004065577 | A2 | 20040805 | WO 2004-US798 | 20040113 |
| WO 2004065577 | A3 | 20060420 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,

NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM,
 GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW,
 MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 US 2004171823 A1 20040902 US 2004-755889 20040113
 EP 1583820 A2 20051012 EP 2004-701762 20040113
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 PRIORITY APPLN. INFO.: US 2003-440068P P 20030114
 US 2003-469757P P 20030512
 WO 2004-US798 W 20040113

ED Entered STN: 18 Feb 2005

AB Polynucleotide and polypeptide sequences are identified that are associated with, regulated in, and/or regulate the NF- κ B pathway in human THP-1 cell. The identification of such polynucleotides and polypeptides were identified utilizing subtraction library technol., PCR expression profiling, and microarray technol., and verified as being of functional relevance by antisense oligonucleotide methodol. and gene knockout studies. These polypeptides and proteins are an advancement toward discovering and identifying new drug targets for the treatment of NF- κ B pathway-related diseases, disorders, and conditions. The invention further relates to compns. and methods for the treatment of diseases or disorders associated with the NF- κ B signaling pathway using the sequences of the invention.

IT **459727-84-5**, Protein (human gene HPAST) **481132-72-3**
840690-75-7 840692-26-4
 RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; polynucleotides and polypeptides associated with the NF- κ B signaling pathway in human THP-1 cells and their use in diagnosis and therapy)

RN 459727-84-5 CAPLUS
 CN Protein (human gene HPAST) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 RN 481132-72-3 CAPLUS
 CN Integral membrane protein (human gene BIGM103) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 RN 840690-75-7 CAPLUS
 CN Transcription factor NF- κ B-associated protein (human clone WO2004065577-SEQID-184) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 RN 840692-26-4 CAPLUS
 CN Transcription factor NF- κ B-associated protein (human clone WO2004065577-SEQID-336) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 IT **459727-84-5**, Protein (human gene HPAST) **481132-72-3**
840690-75-7 840692-26-4
 RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; polynucleotides and polypeptides associated with the NF- κ B signaling pathway in human THP-1 cells and their use in diagnosis and therapy)

RN 459727-84-5 CAPLUS
 CN Protein (human gene HPAST) (9CI) (CA INDEX NAME)

SEQ 1 MFSWVSKDAR RKKEPELFQT VAEGLRQLYA QKLLPLEEHY RFHEFHSPAL
 51 EDADFDNKPM VLLVXQYSTG KTTFIRHLIE QDFPGMRIGP EPTTDSFIAV
 101 MHGPTEGVVP GNALVVDPRR PFRKLNAFGN AFLNRFMCAQ LPNPVLDNIS
 151 IIDTPGILSG EKQRISRGYD FAAVLEWFAE RVDRIILLFD AHKLDISDEF
 201 SEVIKALKNH EDKIRVVLNK ADQIETQQLM RVIYALMWSL GKIINTPEVV
 251 RVIYIGSFWSH PLLIPDNRKL FEAEEQDLFK DIQSLPRNAA LRKLNDLIKR
 301 ARLAKVHAYI ISSLKKEPN VFGKESKKKE LVNNLGEIYQ KIEREHQISP
 351 GDFPSLRKMQ ELLQTQDFSK FQALKPKLLD TVDDMLANDI ARLMVMVRQE
 401 ESLMPSQVVK GGAFDGTMNG PFGHGYGEGA GEGIHVVEWV VGKDKPTYDE
 451 IFYTLSPVNG KITGANAKKE MVKSKLPNTV LGKIWKLADV DKDGLLDDEE
 501 FALANHLIKV KLEGHELPAD LPPHLVPPSK RRHE

RN 481132-72-3 CAPLUS
 CN Integral membrane protein (human gene BIGM103) (9CI) (CA INDEX NAME)

SEQ 1 MAPGRAVAGL LLLAAAGLGG VAEGPGLAFS EDVLSVFGAN LSLSAAQLQH
 51 LLEQMGAASR VGVPEPGQLH FNQCLTAEEI FSLHGFSNAT QITSSKFSVI
 101 CPAVLQQLNF HPCEDRPKHK TRPSHSEVWG YGFLSVTIIN LASLLGLILT
 151 PLIKSYFPK ILTFFVGLAI GTLFSNAIFQ LIPEAFGFDP KVDSYVEKAV
 201 AVFGGFYLLF FFERMLKMLL KTYGQNGHTH FGNDNFGPQE KTHQPKALPA
 251 INGVTCYANP AVTEANGHIH FDNVSVVSLQ DGKKEPSSCT CLKGPKLSEI
 301 GTIAWMITLC DALHNFIDGL AIGASCTLSL LQGLSTSIAT LCEEFPHELG
 351 DFVILLNAGM STRQALLFNF LSACSCYVGL AFGILVGNNF APNIIIFALAG
 401 GMFLYISLAD MFPEMNDMLR EKVTGRKTDF TFFMIQNAGM LTGFTAILLI
 451 TLYAGEIELE

RN 840690-75-7 CAPLUS
 CN Transcription factor NF- κ B-associated protein (human clone
 WO2004065577-SEQID-184) (9CI) (CA INDEX NAME)

SEQ 1 MAPGRAVAGL LLLAAAGLGG VAEGPGLAFS EDVLSVFGAN LSLSAAQLQH
 51 LLEQMGAASR VGVPEPGQLH FNQCLTAEEI FSLHGFSNAT QITSSKFSVI
 101 CPAVLQQLNF HPCEDRPKHK TRPSHSEVWG YGFLSVTIIN LASLLGLILT
 151 PLIKSYFPK ILTFFVGLAI GTLFSNAIFQ LIPEAFGFDP KVDSYVEKAV
 201 AVFGGFYLLF FFERMLKMLL KTYGQNGHTH FGNDNFGPQE KTHQPKALPA
 251 INGVTCYANP AVTEANGHIH FDNVSVVSLQ DGKKEPSSCT CLKGPKLSEI
 301 GTIAWMITLC DALHNFIDGL AIGASCTLSL LQGLSTSIAT LCEEFPHELG
 351 DFVILLNAGM STRQALLFNF LSACSCYVGL AFGILVGNNF APNIIIFALAG
 401 GMFLYISLAD MFPEMNDMLR EKVTGRKTDF TFFMIQNAGM LTGFTAILLI
 451 TLYAGEIELE

RN 840692-26-4 CAPLUS
 CN Transcription factor NF- κ B-associated protein (human clone
 WO2004065577-SEQID-336) (9CI) (CA INDEX NAME)

SEQ 1 MFSWVSKDAR RKKEPELFQT VAEGLRQLYA QKLLPLEEHY RFHEFHSPAL
 51 EDADFDNKPM VLLVXQYSTG KTTFIRHLIE QDFPGMRIGP EPTTDSFIAV
 101 MHGPTEGVVP GNALVVDPRR PFRKLNAFGN AFLNRFMCAQ LPNPVLDNIS
 151 IIDTPGILSG EKQRISRGYD FAAVLEWFAE RVDRIILLFD AHKLDISDEF

201 SEVIKALKNH EDKIRVVLNK ADQIETQQLM RYVGALMWSL GKIINTPEVV
 251 RVIIGSFWSH PLLIPDNRKL FEAEQDLFK DIQSLPRNAA LRKLNDLIKR
 301 ARLAKVHAYI ISSLKKEPN VFGKESKKKE LVNNLGEIYQ KIEREHQISP
 351 GDFPSLRKMQ ELLQTQDFSK FQALKPKLLD TVDDMLANDI ARLMVMVRQE
 401 ESLMPSQVVK GGAFDGTMNG PFGHGYGEA GEGIHVVEWV VGKDKPTYDE
 451 IFYTLSPVNG KITGANAKKE MVKSKLPNTV LGKIWKLADV DKDGLLDDEE
 501 FALANHLIKV KLEGHELPAD LPPHLVPPSK RRHE

L58 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:121193 CAPLUS Full-text

DOCUMENT NUMBER: 142:214836

TITLE: Biomarkers of cyclin-dependent kinase modulation in cancer therapy

INVENTOR(S): Li, Martha; Rupnow, Brent A.; Webster, Kevin R.; Jackson, Donald G.; Wong, Tai W.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 141 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|------------|
| WO 2005012875 | A2 | 20050210 | WO 2004-US24424 | 20040729 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| AU 2004262369 | A1 | 20050210 | AU 2004-262369 | 20040729 |
| CA 2533803 | A1 | 20050210 | CA 2004-2533803 | 20040729 |
| EP 1656542 | A2 | 20060517 | EP 2004-779471 | 20040729 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | |
| PRIORITY APPLN. INFO.: | | | US 2003-490890P | P 20030729 |
| | | | WO 2004-US24424 | W 20040729 |

ED Entered STN: 11 Feb 2005

AB Biomarkers having expression patterns that correlate with a response of cells to treatment with one or more cdk modulating agents, and uses thereof. Transcription profiling was used to identify the biomarkers. Specifically, transcription profiling of the effect of a certain cdk2 inhibitor (BMS 387032 0.5 L-tartaric acid salt) on peripheral blood mononuclear cells was first performed. Gene chips were used to quantitate the levels of gene expression on a large-scale with Affymetrix human gene chips HG-U95A, B, and C. Next, profiling of a cdk2 inhibitor-treated tumor cell line A28780 at multiple doses and time points was performed to establish a correlation of tumor site response with peripheral blood biomarkers. In order to establish the mol. target-specificity of the potential biomarkers, tumor cell line A2780 treated with anti-cdk2 oligonucleotides was also profiles. Overlapping gene

expression changes were selected for further evaluation in human ovarian carcinoma xenograft A2780 that were treated with the cdk2 inhibitor. The selected biomarkers were subjected to real-time PCR anal. in order to verify the observed changes from the gene chip anal. The biomarker comprising GenBank accession number W28729 was discovered to have the most consistent and robust regulation in response to cdk inhibition. Provided are methods for testing or predicting whether a mammal will respond therapeutically to a method of treating cancer that comprises administering an agent that modulates cdk activity.

IT 841323-39-5 841329-82-6 841329-84-8
841329-86-0 841330-76-5 841335-28-2
841336-34-3 841339-51-3 841341-37-5
841342-88-9 841344-42-1 841348-70-7

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; biomarkers of cyclin-dependent kinase modulation in cancer therapy)

RN 841323-39-5 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone WO2005012875-SEQID-77) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 841329-82-6 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone WO2005012875-SEQID-724) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 841329-84-8 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone WO2005012875-SEQID-726) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 841329-86-0 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone WO2005012875-SEQID-728) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 841330-76-5 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone WO2005012875-SEQID-818) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 841335-28-2 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone WO2005012875-SEQID-1270) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 841336-34-3 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone WO2005012875-SEQID-1378) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 841339-51-3 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone WO2005012875-SEQID-1696) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 841341-37-5 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone WO2005012875-SEQID-1882) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 841342-88-9 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
WO2005012875-SEQID-2033) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 841344-42-1 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
WO2005012875-SEQID-2187) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 841348-70-7 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
WO2005012875-SEQID-2615) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 841323-39-5 841329-82-6 841329-84-8

841329-86-0 841330-76-5 841335-28-2

841336-34-3 841339-51-3 841341-37-5

841342-88-9 841344-42-1 841348-70-7

RL: BSU (Biological study, unclassified); BUU (Biological use,
unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; biomarkers of cyclin-dependent kinase modulation
in cancer therapy)

RN 841323-39-5 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
WO2005012875-SEQID-77) (9CI) (CA INDEX NAME)

SEQ 1 PKVSGNQHRV FRLKLPDPNR FALADMSVYN PDKERLVWAC RGLEIGRGQP
51 LGVGSTGHPY FNKVKDTENS NAYITFSKDG QNTAFSKDDR LNTSFDPKQI
101 QMFIVGCTPC IGEHWDKAVP CAKNDQQTGL CPPIELKNTY IEDGDMADIG
151 FGNMNFKAQ DSRSDVSLDI VNETCKYPDF LKMQNDIYGD ACFFYARREQ
201 CYARHFFVRG GKTGDDIPGA QIDNGTYKNQ FYIPGADGQA QKTIGNAMYF
251 PTVSGSLVSS DAQLFNRPFW LQRAQGHNNG ILWANQMFIT VVDNTRNTNF
301 SISVYNQAGP LKDVADYNAE QFREYQRHVE EYEISLILQL CKVPLKAEVL
351 AQINAMNSSL LEDWQLGFVP TPDNPIQDTY RYIDSLATRC PDKNPPKEKE
401 DPYKGLHFWD VDLTERLSLD LDQYSLGRKF LFQAGLQHTT VNGTKAVSYK
451 GSNRGTKRKR KN

RN 841329-82-6 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
WO2005012875-SEQID-724) (9CI) (CA INDEX NAME)

SEQ 1 MQWAVGRRWA WAALLLAVAA VLTQVVWLWL GTQSFVFQRE EIAQLARQYA
51 GLDHELAFSR LIVELRRLHP GHVLPDEELQ WVFVNAGGWM GAMCLLHASL
101 SEYVLLFGTA LGSRGHSGRY WAEISDTIIS GTFHQWREGT TKSEVFYPGE
151 TVVHGPGEAT AVEWGPNTWM VEYGRGVIPS TLAFAALADTV FSTQDFLTFLF
201 YTLRSYARGL RLELTYYLFG QDP

RN 841329-84-8 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
WO2005012875-SEQID-726) (9CI) (CA INDEX NAME)

SEQ 1 MQWAVGRRWA WAALLLAVAA VLTQVVWLWL GTQSFVFQRE EIAQLARQYA
 51 GLDHELAFSR LIVELRRLHP GHVLPDEELQ WVFVNAGGWM GAMCLLHASL
 101 SEYVLLFGTA LGSRGHSGET VVHGPGGEATA VEWGPNTWMV EYGRGVIPST
 151 LAFALADTVF STQDFLTIFY TLRSYARGLR LELTTYLFGQ DP

RN 841329-86-0 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
 WO2005012875-SEQID-728) (9CI) (CA INDEX NAME)

SEQ 1 MQWAVGRRWA WAALLLAVAA VLTQVVWLWL DHELAFSRLI EELQWVFVNA
 51 GGWMGAMCLL HASLSEYVLL FGTALGSRGH SGRYWAEISD TIISGTFHQW
 101 REGTTKSEVF YPGETVVHGP GEATAVEWGP NTWMVEYGRG VIPSTLAFAL
 151 ADTVFSTQDF LTLFYTLRSY ARGRLRLTT YLFGQDP

RN 841330-76-5 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
 WO2005012875-SEQID-818) (9CI) (CA INDEX NAME)

SEQ 1 MAHRCLRLWG RGGCWPRGLQ QLLVPGGVGP GEQPCLRPLY RFVTTQARAS
 51 RNSLLTDIIA AYQRFCSRPP KGFGKYFPNG KNGKKASEPK EVMGEKKESK
 101 PAATTRSSGG GGGGGGKRGK KKDDSHWWSR FQKGDIPWDD KDFRMFFLWT
 151 ALFWGGVMFY LLLKRSGREI TWKDFVNNYL SKGVVDRLEV VNKRFVRVTF
 201 TPGKTPVDGQ YVWFNIGSVD TFERNLETLO QELGIEGENR VPVYVIAESD
 251 GSFLLSMLPT VLIIAFLLYT IRRGPAGIGR TGRGMGGLFS VGETTAKVLK
 301 DEIDVKFKDV AGCEEAKLEI MEFVNFLKNP KQYQDLGAKI PKGAILTGPP
 351 GTGKTLAKA TAGEANVPFI TVSGSEFLEM FVGVGPARVR DLFALARKNA
 401 PCILFIDEID AVGRKRGRGN FGGQSEQENT LNQLLVEMDG FNTTTNVVIL
 451 AGTNRPDILD PALLRPGRFD RQIFIGPPDI KGRASIFKVH LRPLKLDSTL
 501 EKDKLARKLA SLTPGFSGAD VANVCNEAAL IAARHLSDSI NQKHFEQAIE
 551 RVIGGLEKKT QVLQPEEKKT VAYHEAGHAV AGWYLEHADP LLKVSIIIPRG
 601 KGLGYAQYLP KEQYLYTKEQ LLDRMCMTLG GRASEEIFFG RITTGAQDDL
 651 RKVTQSAYAQ IVQFGMNEKV GQISFDLPRQ GDMVLEKPYS EATARLIDDE
 701 VRILINDAYK RTVALLTEKK ADVEKVALLL LEKEVLDKND MVELLGPRPF
 751 AEKSTYEFEV EGTGSLDEDT SLPEGLKDOWN KEREKEKEEP PGEKVAN

RN 841335-28-2 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
 WO2005012875-SEQID-1270) (9CI) (CA INDEX NAME)

SEQ 1 MARRGWRRAP LRRGVGSSPR ARRLMRPLWL LLAVGVFDWA GASDGGGGGEA
 51 RAMDEEIVSE KQAEESHRQD SANLLIFILL LTLTILTIWL FKHRRARFLH
 101 ETGLAMIYGL LVGLVLRGI HVPSPVNNVT LSCEVQSSPT TLLVTFDPEV
 151 FFNILLPPII FYAGYSLKRR HFFRNLSIL AYAFGLTAIS CFVIGSIMYG
 201 CVTLMKVTGQ LAGDFYFTDC LLFGAIVSAT DPVTVLAIFH ELQVDVELYA
 251 LLFGESVLND AVAIVLSSSI VAYQPAGDNS HTFDVTAMFK SIGIFLGIFS
 301 GSFAMGAATG VVTALVTKFT KLREFQLLET GLFFLMSWST FLLAEAWGFT
 351 GVVAVLFCGI TQAHYTYNNL STESQHRKQ LFELLNFLAE NFIFSYMGLT
 401 LFTFQNHVFN PTFVVGAFVA IFLGRAANIY PLSLLNLGR RSKIGSNFQH
 451 MMMFAGLRGA MAFALAIRDT ATYARQMMFS TTLLIVFFTV WVFGGGTAM
 501 LSCLHIRVGV DSDQEHVGVP ENERRTTKAE SAWLFRMWYN FDHNYLKPLL

551 THSGPPLTTT LPACCGPIAR CLTSPQAYEN QEQLKDDSD LILNDGDISL
 601 TYGDSTVNT E PATSSAPRRF MGNSSDALD RELAFGDHEL VIRGTRLVLP
 651 MDDSEPPLNL LDNTRHGPA

RN 841336-34-3 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
 WO2005012875-SEQID-1378) (9CI) (CA INDEX NAME)

SEQ 1 MSFLSRQQPP PPRRAGAACT LRQKLIFSPC SDCEEEEEEE EEEGSGHSTG
 51 EDSAFAQEPDS PLPPARSPTE PGPERRRSPG PAPGSPGELE EDLLLPGACP
 101 GADEAGGGAE GDSWEEEGFG SSSPVKSPAA PYFLGSSFSP VRCGGPGDAS
 151 PRGCGARRAG EGRRSPRPDH PGTPPHKTFR KLRLFDTPHT PKSLLSKARG
 201 IDSSSVKLRG SSLFMDTEKS GKREFDVRQT PQVNINPFTP DSHLLHSSGQ
 251 CRRRKRTYWN DSCGEDMEAS DYELEDTRP AKRITITESN MKSRYTTEFH
 301 ELEKIGSGEF GSVFKCVKRL DGCIYAIKRS KKPLAGSVDE QNALREYVAH
 351 AVLGQSHSHV RYFSAWAEDD HMLIQNEYCN GGSLADAISE NYRIMSYPKE
 401 AELKDLLLQV GRGLRYIHSM SLVHMDIKPS NIFISRTSIP NAASEEGDED
 451 DWASNKVMFK IGD LGHVTRI SSPQVEEGDS RFLANEVLQE NYTHLPKADI
 501 FALALT VVCA AGAEPLPRNG DQWHEIRQGR LPRIPQVLSQ EFTTELLKVM
 551 HPDPERRPSA MALVKHSVLL SASRKS AEQL RIELNAEKFK NSLLQKELKK
 601 AQMAKAAAE RALFTDRMAT RSTTQSNRTS RLIGKKMNRS VSLTIY

RN 841339-51-3 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
 WO2005012875-SEQID-1696) (9CI) (CA INDEX NAME)

SEQ 1 RGCSGARAAM AAGGGGSCDP LAPAGVPCAF SPSQAYFAL ASTDGHLRVW
 51 ETANNRLHQE YVPSAHLST CTCLAWAPAR LQAKESPQRK KRKSEAVGMS
 101 NQTDLLALGT AVGSILLYST VKGELHSLI SGGHDNRVNC IQWHQDSGCL
 151 YSCSDDKHIV EWNVQTCKVK CKWKGDNSSV SSLCISPDGK MLLSAGRTIK
 201 LWVLETKEVY RHFTGHATPV SLMFTTIRP PNESQPF DGI TGLYFLSGAV
 251 HDRLNLNVQV RSENKESAV MSFTVTDEPV YIDLTLSENK EEPVKLAVVC
 301 RDGQVHLFEH ILNGYCKKPL TSNTIQIAT PGKGKSTPK PIPILAAGFC
 351 SDKMSLLLVI GSWFQPTIER VALNSREPHM CLVRDISNCW APKVETAITK
 401 VRTPMVNSEA KVLVPGIPGH HAAIKPAPPQ TEQVESKRKS GGNEVSIEER
 451 LGAMDIDTHK KGKEDLQTNF FVLLTQGLE SNDFEMLNKV LQTRNVNLK
 501 KTVLRMPLHT IIPLLQELTK RLQGHPSAV LMVQWLKCVL TVHASYLSTL
 551 PDLVPQLGTL YQLMESRVKT FQKLSHLHGK LILLITQVTA SEKTKGATSP
 601 GQKAKLVYEE ESSEESDDE IADKDS EDNW DEDEE ESE KDEDVEEDE
 651 DAEGKDEENG EDRDTASEKE LNGSDLDPE NESEEE

RN 841341-37-5 CAPLUS

CN Cyclin-dependent kinase modulator-regulated protein (human clone
 WO2005012875-SEQID-1882) (9CI) (CA INDEX NAME)

SEQ 1 MASKRALVIL AKGA EEMTV IPVDVMRRAG IKVTVAGLAG KDPVQCSR DV
 51 VICPDASLED AKKEGPYDVV VLPGGNLGAQ NLSESAVKE ILKEQENRKG
 101 LIAAICAGPT ALLAHEIGCG SKVTTHPLAK DKMMNGGHYT YSEN RVEKDG
 151 LILTSRGP GT SFEFALAIVE ALNGKEVAAQ VKAPLV LKD

RN 841342-88-9 CAPLUS
 CN Cyclin-dependent kinase modulator-regulated protein (human clone
 WO2005012875-SEQID-2033) (9CI) (CA INDEX NAME)

SEQ 1 MKTPVCSEDQ GPTREVIAQL LEDALQVESQ EQPEQAFVKP HLVSEYDIYG
 51 FRTVPEDDEE EKLVAKVRAL DLKTLYLLEN QEVSTGVKWE NYFASTVNRE
 101 MMCSPELKNL IRAGIPHEHR SKVWKVCVDR HTRKFKDNTE PGHFQTLLOK
 151 ALEKQNPASK QIELDLLRTL PNNKHYSCTP SEGIQKLRNV LLAFSWRNP
 201 IGYCQGLNRL VAVALLYLEQ EDAFWCLVTI VEVFMPRDYY TKTLLGSQVD
 251 QRVFRDLMSK KLPRLHGHFE QYKVDYTLIT FNWFLVVFVD SVVSDILFKI
 301 WDSFLYEGPK VIFRFALALF KYKEEEILKL QDSMSIFKYL RYFTRTILDA
 351 RKLISISFGD LNPFFLRQIR NRRAYHLEKV RLELTELEAI REDFLRERDT
 401 SPDKGELVSD EEEDT

RN 841344-42-1 CAPLUS
 CN Cyclin-dependent kinase modulator-regulated protein (human clone
 WO2005012875-SEQID-2187) (9CI) (CA INDEX NAME)

SEQ 1 MFSWVSKDAR RKKEPELFQT VAEGLRQLYA QKLLPLEEHY RFHEFHSPAL
 51 EDADFDNPKM VLLVGQYSTG KTTFIRHLIE QDFPGMRIGP EPTTDSFIAV
 101 MHGPTGEGVP GNALVVDPRR PFRKLNRFGN AFLNRFMCAQ LPNPVLDSIS
 151 IIDTPGILSG EKQRISRGYD FAVLEWFAD CWDRIILLFD AHKQDISHEF
 201 SEVIKALKNH EDKIRMVLNK ADQIETQQLM RYVGALMWSL GKIINTPEVV
 251 RYVIGSFWSH PLLIPDNRKL FEAEQDLFK DIQSLPRNAA LRKLNLIKR
 301 ARLAKVHAYI ISSLKKEMPV VFGKESKKKE LVNNLGEIYQ KIEREHQISP
 351 GDFPSLRKMQ ELLQTQDFSK FQALKPKLLD TVDDMLANDI ARLMVMVRQE
 401 ESLMPSQVVK GGAFDGTMMG PFGHGYGEGA GEGIDVVEWV VGKDKPSYDE
 451 IFYTLSPVNG KITGANVKE MVKSKLPNTE LGKIWKLADV DKDGLLDDEE
 501 FALANHLIKV KLEGHELPAD LPPHLVPPSK RRHE

RN 841348-70-7 CAPLUS
 CN Cyclin-dependent kinase modulator-regulated protein (human clone
 WO2005012875-SEQID-2615) (9CI) (CA INDEX NAME)

SEQ 1 MDGRTPRPQD APARRKPKAK APLPPAETKY TDVSSAADSV ESTAFIMEQK
 51 ENMIDKDVEL SVVLPGDIIK STTVHGSKPM MDLLIFLCAQ YHLNPSSYTI
 101 DLLSAEQNHI KFKPNTPIGM LEVEKVILKP KMLDKKKPTP IPEKTVRVV
 151 INFKKTKQTI VRVSPHASLQ ELAPIICSKC EFDPLHTLLL KDYQSQEPLD
 201 LTKSLNDLGL RELYAMDVNR ESCQISQNLD IMKEKENKGF FSFFQRSKKK
 251 RDQTASAPAT PLVNKHRPTF TRSNTISKPY ISNTLPSDAP KKRRAPLPPM
 301 PASQSVQDL AHQIERPASC IVKSMSVDET DKSPCEAGRV RAGSLQLSSM
 351 SAGNSSLRRT KRKAPSPPSK IPPHQSDENS RVTALQPVVG VPPDSASEAN
 401 SPEELSSPET FHPGLSSQEQ CTAPKLMEET SVFECPGTPE AAITSLTSGI
 451 SSDYSLEEID EKEELSEVPK VEAENISPKS QDIPFVSTDI INTLKNPDPS
 501 ALNGSGGEFS QNSMEEKQET KSTDGQEPHS VVYDTSNGKK VVDSIRNLKS
 551 LGPNQENVQN EIIVYPENTE DNMKNGVKKT EINVEGVAKN NNIDMEVERP
 601 SNSEAHETDT AISYKENHLA ASSVPDQKLN QPSAEKTKDA AIQTTTPSCNS
 651 FDGKHQDNHL SDKVEECVQ TSNNNISTQH SCLSSQDSVN TSREFRSQGT
 701 LIIHSEDPLT VKDPICAHGN DLLLPPVDRI DKNSTASYLK NYPLYRQDYN
 751 PKPKPSNEIT REYIPKIGMT TYKIVPPKSL EISKDWQSET IEYKDDQDMH
 801 ALGKKHTHEN VKETAIQTED SAISESPEEP LPNLKPKPNL RTEHQVPSSV
 851 SSPDDAMVSP LKPAPKMTRD TGTAPFAPNL EEINNILESK FKSASNAQA

901 KPSSFFLQMQ KRVSGHYVTS AAAKSVHAAP NPAPKELTNK EAERDMLPSP
 951 EQTSLPLSKM PHSVPQPLVE KTDDDVIGQA PAEASPPPIA PKPVTIPASQ
 1001 VSTQNLKTLK TFGAPRPYSS SGPSPFALAV VKRSQSFSKE RTESPSASAL
 1051 VQPPANTEEG KTHSVNKFVD IPQLGVSDKE NNSAHNEQNS QIPTPTDGPS
 1101 FTVMRQSSLT FQSSDPEQMR QSLLTAIRSG EAAAKLKRVV IPSNTISVNG
 1151 RSRLSHSMSP DAQDGH

L58 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:809256 CAPLUS Full-text

DOCUMENT NUMBER: 142:110586

TITLE: Analysis of immune-relevant genes expressed in red sea
bream (*Chrysophrys major*) spleen

AUTHOR(S): Chen, Song-Lin; Xu, Mei-Yu; Hu, Song-Nian; Li, Lin

CORPORATE SOURCE: Yellow Sea Fisheries Research Institute, Chinese
Academy of Fisheries Sciences, Qingdao, 266071, Peop.
Rep. China

SOURCE: Aquaculture (2004), 240(1-4), 115-130

CODEN: AQCLAL; ISSN: 0044-8486

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 05 Oct 2004

AB Expressed sequence tag (EST) anal. is an efficient tool for gene discovery and for profiling gene expression. In order to isolate functional genes involved in immunity in fish, a cDNA library was constructed from red sea bream (*Chrysophrys major*) spleen by unidirectional cloning. A total of 2010 ESTs from the library was sequenced and compared with sequences in the GenBank database. Of the 2010 ESTs, 320 ESTs (15.9%) were identified as orthologs of known gene from other organisms by BLAST searches, whereas 1690 ESTs (84.1%) appeared to be unknown and are likely to represent newly described genes. These identified clones were derived from at least 81 genes, which were categorized into 8 categories: 9 in cell structure/motility (11.1%), 14 in metabolism (17.3%), 8 in cell defense/immunity (10%), 5 in cell division (6.2%), 7 in cell signal transduction/communication (8.6%), 30 in gene/protein expression (37%), 5 Hb (6.2%), and 3 genes lacking enough information to be classified (3.7%). Several important cDNAs involved in immune functions, such as Ig light chain (IgL), MHC class II α , MHC class II β , and RAP2c, were identified in red sea bream and compared for their structure with those from other organisms. Alignment showed that the red sea bream IgL precursor was closer to that of spotted wolffish than to that of yellowtail, Europe sea bass, orange spotted grouper, Atlantic salmon, channel catfish, fugu, and sterlet. Phylogenetic anal. indicated that the red sea bream MHC II α and MHC II β were more related to those from striped sea bass than to those from cichlid, flounder, salmonids, zebrafish, and carp. High identity (over 92%) in deduced amino acid sequence of RAP2c between red sea bream and mammals implied that RAP2c gene was highly conserved during evolution.

IT 623876-76-6

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(amino acid sequence; immune-relevant genes expressed in red sea bream
(*Chrysophrys major*) spleen)

RN 623876-76-6 CAPLUS

CN Mitogen-activated protein kinase 1-interacting protein 1 (*Pagrus major*)
(9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 623876-76-6

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)
 (amino acid sequence; immune-relevant genes expressed in red sea bream
 (Chrysophrys major) spleen)
 RN 623876-76-6 CAPLUS
 CN Mitogen-activated protein kinase 1-interacting protein 1 (Pagrus major)
 (9CI) (CA INDEX NAME)

SEQ 1 MADDLKRYLY KQLQSVEGLH AIVVTDRDGV PVIKVANDNA PVHALRPGFL
 51 STFALATDQG SKLGLSKNKS IICYNTYQI VQFNRLPLVI SFIASSNANT
 101 GLIMSLEKEL APLIEELRQV VEV

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L58 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:802820 CAPLUS Full-text
 DOCUMENT NUMBER: 141:312934
 TITLE: Vaccines comprising polynucleotide encoding Notch
 signalling modulator and antigen or antigenic
 determinant for medical treatment
 INVENTOR(S): Champion, Brian Robert; Ragno, Silvia
 PATENT ASSIGNEE(S): Lorientis Limited, UK
 SOURCE: PCT Int. Appl., 278 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 17
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|------------|
| WO 2004083372 | A2 | 20040930 | WO 2004-GB1229 | 20040322 |
| WO 2004083372 | A3 | 20041104 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| US 2006172011 | A1 | 20060803 | US 2005-232404 | 20050921 |
| PRIORITY APPLN. INFO.: | | | GB 2003-6582 | A 20030321 |
| | | | GB 2003-6583 | A 20030321 |
| | | | GB 2003-6621 | A 20030322 |
| | | | GB 2003-6622 | A 20030322 |
| | | | GB 2003-6624 | A 20030322 |
| | | | GB 2003-6626 | A 20030322 |
| | | | GB 2003-6640 | A 20030322 |
| | | | GB 2003-6644 | A 20030322 |
| | | | GB 2003-6650 | A 20030322 |
| | | | GB 2003-6651 | A 20030322 |
| | | | GB 2003-6654 | A 20030322 |

ED Entered STN: 01 Oct 2004

AB The invention provides a particle capable of being inserted into or taken up by a cell comprising (i) a polynucleotide coding for a modulator of Notch signaling; and (ii) a polynucleotide coding for an antigen or antigenic determinant thereof. The Notch signaling modulator is Delta or Serrate/Jagged protein, fragment, derivative, homolog, analog or allelic variant. The antigen is an allergen, autoantigen, MHC antigen, or tumor antigen. The cell is immune cell, antigen-presenting cell, dendritic cell or Langerhans cell. Methods for using the particles are also described.

IT 767363-94-0

RL: PRP (Properties)

(unclaimed sequence; vaccines comprising polynucleotide encoding Notch signaling modulator and antigen or antigenic determinant for medical treatment)

RN 767363-94-0 CAPLUS

CN 131: PN: WO2004083372 PAGE: 162 unclaimed sequence (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 767363-94-0

RL: PRP (Properties)

(unclaimed sequence; vaccines comprising polynucleotide encoding Notch signaling modulator and antigen or antigenic determinant for medical treatment)

RN 767363-94-0 CAPLUS

CN 131: PN: WO2004083372 PAGE: 162 unclaimed sequence (9CI) (CA INDEX NAME)

SEQ 1 MEESVNQMOP LNEKQIANSQ DGYVWQVTDN NRLHRFLCFG SEGGTYIYKE
51 QKLGLENAEA LIRLIEDGRG CEVIQEIJSF SQEGRTTKQE PMLFALAICS
101 QCSDISTKQA AFKAVSEVCR IPHLLFTFIQ FKKDLKESMK CGMWGRALRK
151 AIADWYNEKG GMALALAVTK YKQRNGWSHK DLLRLSHLKP SSEGLAIVTK
201 YITKGWKEVH ELYKEKALS SV ETEKLLKYLE AVEKVKRTRD ELEVIHLIEE
251 HRLVREHLLT NHLKSKEVWK ALLQEMPLTA LLRNLGKMTA NSVLEPGNSE
301 VSLVCEKLCN EKLLKKARIH PFHILIALET YKTGHGLRGK LKWRPDEEIL
351 KALDAAFYKT FKTVEPTGKR FLLAVDVSAS MNQRLVLSIL NASTVAAAMC
401 MVVTRTEKDS YVVAFSDEMV PCPVTDDMTL QQVLMAMSQI PAGGTDCSLP
451 MIWAQKTNTN ADVFIVFTDN ETFAGGVHPA IALREYRKKM DIPAKLIVCG
501 MTSNGFTIAD PDDRALQNTL LNKSF

L58 ANSWER 20 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:634055 CAPLUS Full-text

DOCUMENT NUMBER: 141:168996

TITLE: Polynucleotides and polypeptides associated with the NF- κ B signaling pathway in human THP-1 cells and their use in diagnosis and therapy

INVENTOR(S): Nadler, Steven G.; Neubauer, Michael G.; Feder, John N.; Carman, Julie

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 238 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|-------|-----------------|-------|
| ----- | ---- | ----- | ----- | ----- |

RN 481132-72-3 CAPLUS
 CN Integral membrane protein (human gene BIGM103) (9CI) (CA INDEX NAME)

SEQ 1 MAPGRAVAGL LLLAAAGLGG VAEGPGLAFS EDVLSVFGAN LSLSAAQLQH
 51 LLEQMGASR VGVPEPGQLH FNQCLTAEI FSLHGFSNAT QITSSKFSVI
 101 CPAVLQQLNF HPCEDRPKHK TRPSHSEVWG YGFLSVTIIN LASLLGLILT
 151 PLIKSYPFK ILTFFVGLAI GTLFSNAIFQ LIPEAFGFDP KVDSYVEKAV
 201 AVFGGFYLLF FFERMLKMLL KTYGQNGHTH FGNDNFGPQE KTHQPKALPA
 251 INGVTCYANP AVTEANGHIH FDNVSVVSLQ DGKKEPSSCT CLKGPKLSEI
 301 GTIAWMITLC DALHNFIDGL AIGASCTLSL LQGLSTSAI LCEEFPHELG
 351 DFVILLNAGM STRQALLFNF LSACSCYVGL AFGILVGNNF APNIIIFALAG
 401 GMFLYISLAD MFPEMNDMLR EKVTGRKTD FTFMIQNAGM LTGFTAILLI
 451 TLYAGEIELE

L58 ANSWER 21 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:633546 CAPLUS Full-text

DOCUMENT NUMBER: 141:179617

TITLE: Treatment of autoimmune diseases using an activator
 for the notch signaling pathway

INVENTOR(S): Champion, Brian Robert; Ragno, Silvia; Young, Lesley
 Lynn

PATENT ASSIGNEE(S): Lorantis Limited, UK

SOURCE: PCT Int. Appl., 244 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 17

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------------------|----------|
| WO 2004064863 | A1 | 20040805 | WO 2004-GB263 | 20040123 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| WO 2003087159 | A2 | 20031023 | WO 2003-GB301525 | 20030404 |
| WO 2003087159 | A3 | 20040205 | | |
| WO 2003087159 | A8 | 20050512 | | |
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| WO 2004013179 | A1 | 20040212 | WO 2003-GB303285 | 20030801 |
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 WO 2004060262 A2 20040722 WO 2004-GB46 20040107
 WO 2004060262 A3 20041209
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 EP 1585543 A1 20051019 EP 2004-704657 20040123
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 JP 2006517533 T 20060727 JP 2006-500232 20040123
 WO 2004082710 A1 20040930 WO 2004-GB1252 20040322
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 EP 1646400 A1 20060419 EP 2004-722319 20040322
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 US 2006204508 A1 20060914 US 2005-188417 20050725
 US 2006205823 A1 20060914 US 2005-231494 20050921
 PRIORITY APPLN. INFO.:
 GB 2003-1510 A 20030123
 GB 2003-1512 A 20030123
 GB 2003-1513 A 20030123
 GB 2003-1515 A 20030123
 GB 2003-1518 A 20030123
 GB 2003-1519 A 20030123
 GB 2003-1521 A 20030123
 GB 2003-1522 A 20030123
 GB 2003-1524 A 20030123
 GB 2003-1526 A 20030123
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 GB 2002-20849 A 20020907
 GB 2002-20912 A 20020910
 GB 2002-20913 A 20020910
 WO 2002-GB5133 A 20021113
 WO 2002-GB5137 A 20021113

| | | |
|----------------|---|----------|
| GB 2003-234 | A | 20030107 |
| GB 2003-6582 | A | 20030321 |
| GB 2003-6583 | A | 20030321 |
| GB 2003-6621 | A | 20030322 |
| GB 2003-6622 | A | 20030322 |
| GB 2003-6624 | A | 20030322 |
| GB 2003-6626 | A | 20030322 |
| GB 2003-6640 | A | 20030322 |
| GB 2003-6644 | A | 20030322 |
| GB 2003-6650 | A | 20030322 |
| GB 2003-6651 | A | 20030322 |
| GB 2003-6654 | A | 20030322 |
| WO 2004-GB263 | W | 20040123 |
| WO 2004-GB1252 | W | 20040322 |

ED Entered STN: 06 Aug 2004

AB A product is disclosed comprising a modulator of the Notch signaling pathway; and an autoantigen or bystander antigen, or a polynucleotide coding for an autoantigen or bystander antigen; as a combined preparation for simultaneous, contemporaneous, sep. or sequential use for modulation of immune response. The invention relates to modulators of notch signalling pathway for T cell activation, and therapeutic use in immunosuppression. In the examples of the invention, a fusion protein comprising the extracellular domain of human Deltal ligand fused to the Fc domain of human IgG4.

IT **733172-50-4**

RL: PRP (Properties)

(unclaimed sequence; treatment of autoimmune diseases using an activator for the notch signaling pathway)

RN 733172-50-4 CAPLUS

CN 114: PN: WO2004064863 PAGE: 112-113 unclaimed sequence (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **733172-50-4**

RL: PRP (Properties)

(unclaimed sequence; treatment of autoimmune diseases using an activator for the notch signaling pathway)

RN 733172-50-4 CAPLUS

CN 114: PN: WO2004064863 PAGE: 112-113 unclaimed sequence (9CI) (CA INDEX NAME)

```

SEQ      1 MEESVNQMOP LNEKQIANSQ DGYVWQVTDM NRLHRFLCFG SEGGTYIYKE
      51 QKLGLENAEA LIRLIEDGRG CEVIQEIKSF SQEGRTTKQE PMLFALAICS
     101 QCSDISTKQA AFKAVSEVCR IPTHLFTFIQ FKKDLKESMK CGMWGRALRK
     151 AIADWYNEKG GMALALAVTK YKQRNGWSHK DLLRLSHLKP SSEGLAIVTK
     201 YITKGWKEVH ELYKEKALSV ETEKLLKYLE AVEKVKRTRD ELEVIHLIEE
     251 HRLVREHLLT NHLKSKEVWK ALLQEMPLTA LLRNLGKMTA NSVLEPGNSE
     301 VSLVCEKLCN EKLLKKARIH PFHILIALET YKTGHGLRGK LKWRPDEEIL
     351 KALDAAFYKT FKTVEPTGKR FLLAVDVSAS MNQRVLGSIL NASTVAAAMC
     401 MVVTRTEKDS YVVAFSDEM VPCPVTTDMTL QQVLMAMSQI PAGGTDCSLP
     451 MIWAQKTNTP ADVFIVFTDN ETFAGGVHPA IALREYRKKM DIPAKLIVCG
     501 MTSNGFTIAD PDDRALQNTL LNKSF

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REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L58 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:612479 CAPLUS Full-text

DOCUMENT NUMBER: 141:138524
 TITLE: Gene expression profiles and microarrays for colon cancer and their use for cancer diagnosis and therapeutics
 INVENTOR(S): Eveleigh, Deepa; Bigwood, Douglas; Taylor, Ian
 PATENT ASSIGNEE(S): Bayer Pharmaceuticals Corporation, USA
 SOURCE: U.S. Pat. Appl. Publ., 23 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| US 2004146921 | A1 | 20040729 | US 2004-764425 | 20040123 |
| CA 2514187 | A1 | 20040812 | CA 2004-2514187 | 20040123 |
| WO 2004066941 | A2 | 20040812 | WO 2004-US2188 | 20040123 |
| WO 2004066941 | A3 | 20060803 | | |

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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 1603514 A2 20051214 EP 2004-704977 20040123

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.: US 2003-442582P P 20030124
 WO 2004-US2188 W 20040123

ED Entered STN: 30 Jul 2004

AB The present invention relates to gene expression profiles for colon cancer, microarrays comprising nucleic acid sequences representing gene expression profiles, and methods of using the expression profiles and microarrays. The invention also provides methods and compns. for diagnostic assays for detecting cancer and therapeutic methods and compns. for treating cancer. The invention also provides methods for designing, identifying, and optimizing therapeutics for cancer. [The present invention claims a total of 96 nucleic acid sequences and 95 protein sequences and provides their GenBank or RefSeq accession nos., but the Sequence Listing was not made available on publication of the patent application.]

IT 727432-36-2

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; gene expression profiles and microarrays for colon cancer and their use for cancer diagnosis and therapeutics)

RN 727432-36-2 CAPLUS

CN Colon tumor-associated protein (human clone US20040146921-SEQID-189) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 727432-36-2

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; gene expression profiles and microarrays for colon cancer and their use for cancer diagnosis and therapeutics)

RN 727432-36-2 CAPLUS
 CN Colon tumor-associated protein (human clone US20040146921-SEQID-189) (9CI)
 (CA INDEX NAME)

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SEQ      1 MEYEWKPDEQ GLQQILQLLK ESQSPDTTIQ RTVQQKLEQL NQYPDFNNYL
      51 IFVLTKLKSE DEPTRSLGL ILKNNVKAHF QNFPNGVTDF IKSECLNNIG
     101 DSSPLIRATV GILITTIASK GELQNWPDLL PKLCSLLDSE DYNCEGAFG
     151 ALQKICEDSA EILDSVLDL PLNIMIPKFL QFFKHSSPKI RSHAVACVNQ
     201 FIISRTQALM LHIDSFLENL FALAGDEEPE VRKNVCRALV MLEVRMDRL
     251 LPHMHNIVEY MLQRTQDQDE NVALEACEFW LTLAEQPICK DVLVRHLPKL
     301 IPVLVNGMKY SDIDIILLKG DVEEDETIPD SEQDIRPRFH RSRTVAQQHD
     351 EDGIEEEDDD DDEIDDDDTI SDWNLRKCSA AALDVLANVY RDELLPHILP
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     551 SVGHHLNKPE YIQMLMPPLI QKWNMLKDED KDLFPLLECL SSVATALQSG
     601 FLPHYCEPVYQ RCVNLVQKTL AQAMLNNAQP DQYEAPDKDF MIVALDLSG
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     701 HVKPCIADFM PILGTNLNPE FISVCNNATW AIGEISIQMG IEMQPYIPMV
     751 LHQLVEIINR PNTPKTLLEN TAITIGRLGY VCPQEVAPML QQFIRPWCTS
     801 LRNIRDNEEK DSAFRGICTM ISVNPSGVIQ DFIFFCDAVA SWINPKDDLRL
     851 DMFCKILHGF KNQVGDENWR RFSDQFPLPL KERLAIFYGV
  
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L58 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:589374 CAPLUS Full-text

DOCUMENT NUMBER: 141:134061

TITLE: Tumor-associated nucleic acids and encoded proteins as therapeutic targets in cancer

INVENTOR(S): Morris, David W.; Malandro, Marc S.

PATENT ASSIGNEE(S): Sagres Discovery, Inc., USA

SOURCE: PCT Int. Appl., 199 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| WO 2004060304 | A2 | 20040722 | WO 2003-US41389 | 20031222 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
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| US 2006040262 | A1 | 20060223 | US 2002-330773 | 20021227 |
| CA 2511817 | A1 | 20040722 | CA 2003-2511817 | 20031222 |
| AU 2003303638 | A1 | 20040729 | AU 2003-303638 | 20031222 |
| EP 1587476 | A2 | 20051026 | EP 2003-814974 | 20031222 |
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JP 2006518991 T 20060824 JP 2004-565747 20031222
 US 2006166213 A1 20060727 US 2005-540898 20051213
 PRIORITY APPLN. INFO.: US 2002-330773 A 20021227
 WO 2003-US41389 W 20031222

ED Entered STN: 23 Jul 2004

AB The present invention relates to novel sequences for use in detection, diagnosis, and treatment of cancers, especially lymphomas. The invention provides cancer-associated (CA) polynucleotide sequences whose expression is associated with cancer. CA sequences were initially identified by infection of mice with a retrovirus such as murine leukemia virus (MLV, resulting in lymphomas) or mouse mammary tumor virus (MMTV, resulting in mammary adenocarcinoma), and identifying up- or down-regulated sequences in cancer tissue as compared to normal tissue of the same differentiation type. The CA sequences in mice and their human homologs are using Panther software designed to detect homologs and enable prediction of mol. function through a system for protein functional classification. The present invention provides CA polypeptides associated with cancer that are present on the cell surface and present novel therapeutic targets against cancer, diagnostic compns. and methods for the detection of cancer, and monoclonal and polyclonal antibodies specific for the CA polypeptides.

IT 724902-56-1 724904-27-2 724906-39-2
 724906-42-7

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; tumor-associated nucleic acids and encoded proteins as therapeutic targets in cancer)

RN 724902-56-1 CAPLUS

CN Tumor-associated protein (mouse clone mP09-006) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 724904-27-2 CAPLUS

CN Tumor-associated protein (human clone hP1-10-027) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 724906-39-2 CAPLUS

CN Tumor-associated protein (mouse clone mP1-11-021) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 724906-42-7 CAPLUS

CN Tumor-associated protein (human clone hP1-11-021) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 724902-56-1 724904-27-2 724906-39-2
 724906-42-7

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; tumor-associated nucleic acids and encoded proteins as therapeutic targets in cancer)

RN 724902-56-1 CAPLUS

CN Tumor-associated protein (mouse clone mP09-006) (9CI) (CA INDEX NAME)

SEQ 1 GSGRRTRPRP LSDYQQLAGR SLSIPEDAIA ADPPDEDHVD RMHPASVTTT
 51 SQDPCAPSGS CRGGRRRRPI SVIGGVSFYQ NTQVEDVENL LVQPAARPPV
 101 PAHQVPPYKA VSARLRPFTE SQSTPIGLDR VGRRRQMKTS NVSSDGGAES
 151 SALVDDNGSE EDFSYELCQ ANPRYLQPGG EQLAINELIS DGSVVCAEAL
 201 WDHTVMDQDE LGFKAGDVIQ VLEASNKDDW WGRNEDKEAW FPASFVRLRV
 251 NQEELPENCSS SHGEEQDED TSKARHKHPE SQQQMRTNVI QEIMNTERVY
 301 IKHLKDICEG YIRQCRKHTG MFTVAQLATI FGNIEDIYKF QRKFLKDLEK
 351 QYNKEEPHLS EIGSCFLEHQ EGFAIYSEYC NNHPGACVEL SNLMKHSKYR

401 HFFEACRLIQ QMIDIALDGF LLTPVQKICK YPLQLAELLK YTTQEHGDYN
 451 NIKAAYEAMK NVACLINERK RKLESIDKIA RWQVSIVGWE GLDILDRSSE
 501 LIHSGELTKI TRQGSQQRI FFLFDHQLVS CKKDLLRRDM LYYKGRMDMD
 551 EVELVDVEDG RDKDWSLSLR NAFKLVSKAT DEVHLFCARK QEDKARWLQA
 601 YADERRRVQE DQOMGMEIPE NQKKLAMLNA QKAGHGKSKG YNSCPVAPPH
 651 QSLPPLHQRH ITVPTSIPQQ QVFALAEPRK KPSIFWHTFH KLTFFRK

RN 724904-27-2 CAPLUS

CN Tumor-associated protein (human clone hP1-10-027) (9CI) (CA INDEX NAME)

SEQ 1 MPSRKFADGE VVRGRWPGSS LYYEVEILSH DSTSQLYTVK YKDGTELELK
 51 ENDIKPLTSF RQRKGGSTSS SPSRRRGSRs RSRSRSPGRP PKSARRSASA
 101 SHQADIKEAR REVEVKLTPL ILKPFNGSIS RYNGEPEHIE RNDAPHKNTQ
 151 EKFNLSQESS YIATQYSLRP RREEVKLKEI DSKEEKYVAK ELAVRTFEVT
 201 PIRAKDLEFG GVPGVFLIMF GLPVFLFLLL LMCKQKDPSL LNFPPPLPAL
 251 YELWETRVFG VYLLWFLIQV LFYLLPIGKV VEGTPLIDGR RLKYRLNGFY
 301 AFILTSAVIG TSLFQGVFHF YVYSHFLQFA LAATVFCVVL SVYLYMRSK
 351 APRNDLSPAS SGNVYDFFI GRELNPRIGT FDLKYFCELR PGLIGWVVIN
 401 LVMLLAEMKI QDRAVPSLAM ILVNSFQLLY VVDALWNEEA LLTTMDIHD
 451 GFGFMALAFD LVWVPFIYSF QAFYLVSHPN EVSWPMASLI IVLKLCCGYVI
 501 FRGANSQKNA FRKNPSDPKL AHLKTIHTST GKNLLVSGWW GFVRHPNYLG
 551 DLIMALAWSL PCGFNHILPY FYIIYFTMLL VHREARDEYH CKKKYGVAVE
 601 KYCQRVPYRI FPYIY

RN 724906-39-2 CAPLUS

CN Tumor-associated protein (mouse clone mP1-11-021) (9CI) (CA INDEX NAME)

SEQ 1 LSIMAQTHGS KQQAQRLEQG AESLRHGAQA QSRENNVSLs TVSHADEPSQ
 51 RDESSRLTVR MENTYQLGPT KPFPVATVNH ILEDVLTYYL QEAQYDPEFC
 101 RQMTKTISEV IKTQVKELVI PRYKLIVIVY IGQRDDQSIV IGSRCCLWPK
 151 SDTVSSYTFK NSTFFALANV YAVYFE

RN 724906-42-7 CAPLUS

CN Tumor-associated protein (human clone hP1-11-021) (9CI) (CA INDEX NAME)

SEQ 1 MMMSDNAKGR AAHSWKKRGS ISSLSNHEFW RKEIHGRIKD SMSTVSYMEE
 51 PSQRDDISRL TVQMENTYQL GPPKHFPVVT VNHILKDVVT SYLQVEEYEP
 101 ELCRQMTKTI SEVIKAQVKD LMIPRYKLIV IVHIGQLNRQ SILIGSRCLW
 151 DPKSDTFSSY VFRNSSLFAL ANVYAVYLE

L58 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:533779 CAPLUS Full-text

DOCUMENT NUMBER: 141:87776

TITLE: Cancer-associated nucleic acids, proteins and
 antibodies for diagnosis and treatment of cancer

INVENTOR(S): Morris, David W.; Malandro, Marc S.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 105 pp.

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 25
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| US 2004126762 | A1 | 20040701 | US 2002-322281 | 20021217 |
| CA 2479719 | A1 | 20031002 | CA 2003-2479719 | 20030317 |
| CA 2479731 | A1 | 20031002 | CA 2003-2479731 | 20030317 |
| WO 2003079977 | A2 | 20031002 | WO 2003-US8071 | 20030317 |
| WO 2003079977 | A3 | 20040812 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| WO 2003080853 | A1 | 20031002 | WO 2003-US8188 | 20030317 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| AU 2003225826 | A1 | 20031008 | AU 2003-225826 | 20030317 |
| AU 2003230669 | A1 | 20031008 | AU 2003-230669 | 20030317 |
| EP 1490500 | A1 | 20041229 | EP 2003-723759 | 20030317 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | |
| EP 1490690 | A2 | 20041229 | EP 2003-745117 | 20030317 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | |
| JP 2005520536 | T | 20050714 | JP 2003-577810 | 20030317 |
| JP 2005520551 | T | 20050714 | JP 2003-578577 | 20030317 |
| US 2006194265 | A1 | 20060831 | US 2003-669920 | 20030923 |
| CA 2508944 | A1 | 20040715 | CA 2003-2508944 | 20031215 |
| WO 2004058146 | A2 | 20040715 | WO 2003-US40081 | 20031215 |
| WO 2004058146 | A3 | 20040930 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| AU 2003299645 | A1 | 20040722 | AU 2003-299645 | 20031215 |
| EP 1581542 | A2 | 20051005 | EP 2003-799929 | 20031215 |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 US 2006154250 A1 20060713 US 2005-539228 20051028
 PRIORITY APPLN. INFO.: US 2001-4113 B2 20011023
 US 2001-52482 B2 20011108
 US 2001-997722 B2 20011130
 US 2001-34650 A2 20011220
 US 2002-85117 B2 20020227
 US 2002-87192 A2 20020301
 US 2002-105612 A 20020320
 US 2002-105613 A 20020320
 US 2002-322281 A2 20021217
 US 2002-322696 A2 20021217
 WO 2003-US8071 W 20030317
 WO 2003-US8188 W 20030317
 WO 2003-US40081 W 20031215

ED Entered STN: 02 Jul 2004

AB The present invention relates to novel sequences for use in detection, diagnosis and treatment of cancers, especially lymphomas. The invention provides cancer-associated (CA) polynucleotide sequences whose expression is associated with cancer. The tumors are mammary adenocarcinoma and hematopoietic malignancies (primarily T- or B-cell lymphomas) induced in mice using either mouse mammary tumor virus (MMTV) or murine leukemia virus (MLV). The present invention provides CA polypeptides associated with cancer and provides diagnostic compns. and methods for the detection of cancer. The present invention provides monoclonal and polyclonal antibodies specific for the CA polypeptides. The present invention also provides diagnostic tools and therapeutic compns. and methods for screening, prevention and treatment of cancer.

IT 716836-00-9P 716836-03-2P 716836-82-7P
 716836-85-0P

RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; mammary adenocarcinoma and hematopoietic malignancy-associated nucleic acids, proteins and antibodies for diagnosis and treatment of cancer)

RN 716836-00-9 CAPLUS

CN Tumor-associated protein (mouse clone mP07-070) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 716836-03-2 CAPLUS

CN Tumor-associated protein (human clone hP07-070) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 716836-82-7 CAPLUS

CN Tumor-associated protein (mouse clone mP07-082) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 716836-85-0 CAPLUS

CN Tumor-associated protein (human clone hP07-082) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 716836-00-9P 716836-03-2P 716836-82-7P
 716836-85-0P

RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; mammary adenocarcinoma and hematopoietic malignancy-associated nucleic acids, proteins and antibodies for diagnosis and treatment of cancer)

RN 716836-00-9 CAPLUS

CN Tumor-associated protein (mouse clone mP07-070) (9CI) (CA INDEX NAME)

SEQ 1 RTEASSRERP CLRVSALRTP SGRPVAPAAR PCVRAAAALR RGRPGTEGSS
 51 SLPAPAALVV AVAVVVVVVS AVAWAMANYI HVPPGSPEVP KLDVTVQDQE
 101 EQRCRDGALS LLRHLPHPWD PREVTLQLFT DGITNKLIAC YVGDTMEDVV
 151 LVRIYGNKTE LLVDRDEEVK SFRVLQAHGC APQLYCTFNN GLCYEFIQGE
 201 ALDPQHVCNP AIFRLIARQL AKIHAIHAHN GWIPKSNLWL KMGKYFSLIP
 251 TGFADENINK RFLSEIPSPQ LLQEEMTWMK ELLSSLGSPV VLCHNDLLCK
 301 NIIYNEKQGD VQFIDYEYSY YNYLAYDIGN HFNEFAGVSD VDYSLYPDRE
 351 LQGQWLRSYL EAYKEYKGGF SDVTEKEVET LFIQVNQFAL ASHFFWGLWA
 401 LIQAKYSTIE FDFLGAVVR FNQYFKMKPE VTALKMPE

RN 716836-03-2 CAPLUS

CN Tumor-associated protein (human clone hP07-070) (9CI) (CA INDEX NAME)

SEQ 1 HLRPHWDPQE VTLQLFTDGI TNKLIGCYVG NTMEDVVLVR IYGNKTELLV
 51 DRDEEVKSFR VLQAHGCAPO LYCTFNGLC YEFIQGEALD PKHVCNPAIF
 101 RLIARQLAKI HAIHAHNGWI PKSNLWLKMG KYFSLIPTGF ADEDINKRFL
 151 SDIPSSQILQ EEMTWMKEIL SNLGSPVVLK HNDLLCKNII YNEKQGDVQF
 201 IDYEYSYNY LAYDIGNHFN EFAGVSDVDY SLYPDRELQS QWLRAYLEAY
 251 KEFKGFGTEV TEKEVEILFI QVNQFALASH FFWGLWALIQ AKYSTIEFDF
 301 LGYAIVRFNQ YFKMKPEVTA LKVPE

RN 716836-82-7 CAPLUS

CN Tumor-associated protein (mouse clone mP07-082) (9CI) (CA INDEX NAME)

SEQ 1 MELKRLGVSF RFLMVLVLIL QSLSALDFDP YRVLGVSRTA SQADIKKAYK
 51 KLAREWHDPK NKDPGAEDRF IQISKAYEEK RTNYDHYGDA GENQGYQKQQ
 101 REHRFRHFHE NFYFDESFFH PPFNAERRDS GDEKYLHFS HYVNEVLPEP
 151 FKRPLYKIT SDWCFSCIHI EPVWKEVVQE LEGLGVGIGV VHAGYERRLA
 201 HHLGAHSTPS ILGVISGKIT FFFHNAVVEN LRQFVESLLP GNLVEKVNTK
 251 NYVRFLSGWQ QENKPHALLF GQTPAVPLMY KLTAFAKYDY VSFGYVYVGL
 301 RGVEEMTRQY NVNLYTPTML IFKEHINKPA DVIQARGLKK QVIEDFIAQN
 351 KYLLASRLTS QRLFHELCPV KRSHRQRKYC VLLTAETNK VSKPFEAFLS
 401 FALANTQDTV RFVHVYSNRQ QEFASTLLPD MEAFQKSGV SILERRNTAG
 451 RVVFKTLEDP WTGSESDKFV LLGYLDQLRK DPAFLSSEAV LPDLTDELAP
 501 VSIRVQKNP AGGVGQCSWL KARSRGCGLT AAFASRREMM PLLSLIFSAL
 551 FILFGTVMVQ AFSKIPKKG FVEVTELTDT YTSNLVRLRP GHMNVVLILS
 601 NSTKTSLLQK FALEVYFTG SSSLHFSFLT LDKHREWLEY LLEFAQDAAP
 651 IPNQYDKHFM ERDYGTVLA LNHKKYFCL FKPLKTVDEE TVASCDPDSS
 701 RGKPSGCLGP KPLKGKLSKL SLWMERLLEG SLQRFYIPSW PELD

RN 716836-85-0 CAPLUS

CN Tumor-associated protein (human clone hP07-082) (9CI) (CA INDEX NAME)

SEQ 1 ILSNEEKRSN YDQYGDAGEN QGYQKQQQQR EYRFRHFHEN FYFDESFFHF

51 PFNSERRDSI DEKYLLHFSH YVNEVVPDSF KKPYLKITS DWCFSCIHIE
 101 PVWKEVIQEL EELGVGIGVV HAGYERRLAH HLGASTPSI LGIINGKISF
 151 FHNAVRENRL RQFVESLLPG NLVEKVTKN YVRFLSGWQQ ENKPHVLLFD
 201 QTPIVPLLYK LTAFAYKDYL SFGYVYVGLR GTEEMTRRYN INIYAPTLLV
 251 FKEHINRPAD VIQARGMKKQ IIDDFITRNK YLLAARLTSQ KLFHELCPVK
 301 RSHRQRKYCV VLLTAETTKL SKPFEAFLSF ALANTQDTRV FVHVYSNRQQ
 351 EFADTLLPDS EAFQGKSAVS ILERRNTAGR VVYKTLEDPW IGSESDKFIL
 401 LGYLDQLRKD PALLSSEAVL PDLTDELAPV FLLRWFYAS DYISDCWDSI
 451 FHNNWREMMP LLSLIFSALF ILFGTVIVQA FSDSNDERES SPPEKEEAQE
 501 KTGKTEPSFT KENSSKIPKK GFVEVTELD VTYTSNLVRL RPHGMNVVLI
 551 LSNSTKTSLL QKFALEVYTF TGSSCLHFSF LSLDKHREWL EYLLEFAQDA
 601 APIPNQYDKH FMERDYGTV LALNGHKKYF CLFKPQKTVE EEEAIGSCSD
 651 VDSLLYLGES RGKPCGLGS RPIKGKLSKL SLWMERLLEG SLQRFYIPSW
 701 PELD

L58 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:269752 CAPLUS Full-text

DOCUMENT NUMBER: 140:302325

TITLE: Human sarcoma-associated NY-SAR antigens, antibodies, genes and polynucleotides and **conjugates** for cancer diagnosis and therapy

INVENTOR(S): Scanlan, Matthew J.; Lee, Sang-Yull; Old, Lloyd J.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 147 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|------------|
| US 2004063101 | A1 | 20040401 | US 2002-260708 | 20020930 |
| WO 2004031354 | A2 | 20040415 | WO 2003-US30870 | 20030930 |
| WO 2004031354 | A3 | 20060112 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| AU 2003287016 | A1 | 20040423 | AU 2003-287016 | 20030930 |
| EP 1572965 | A2 | 20050914 | EP 2003-777536 | 20030930 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| PRIORITY APPLN. INFO.: | | | US 2002-260708 | A 20020930 |
| | | | WO 2003-US30870 | W 20030930 |

ED Entered STN: 02 Apr 2004

AB The invention relates to sarcoma-associated antigens and the nucleic acid mols. that encode them. The invention further relates to the use of the nucleic acid mols., polypeptides and fragments thereof associated with sarcoma in methods and compns. for the diagnosis and treatment of diseases, such as

cancer More specifically, the invention relates to the discovery of a novel cancer/testis (CT) antigen, NY-SAR-35.

IT **676376-92-4P**

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human sarcoma-associated NY-SAR antigens, antibodies, genes and polynucleotides and **conjugates** for cancer diagnosis and therapy)

RN 676376-92-4 CAPLUS

CN Sarcoma-associated antigen NY-SAR-50 (human) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **676376-92-4P**

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human sarcoma-associated NY-SAR antigens, antibodies, genes and polynucleotides and **conjugates** for cancer diagnosis and therapy)

RN 676376-92-4 CAPLUS

CN Sarcoma-associated antigen NY-SAR-50 (human) (9CI) (CA INDEX NAME)

SEQ 1 MSVGFIGAGQ LAFALAKGFT AAGVLAHAKI MASSPDMDLA TVSALRKMGV
51 KLTPHNKETV QHSDVLFLLAV KPHIIPFILD EIGADIEDRH IVVSCAAGVT
101 ISSIEKKLSA FRPAPRVIRC MTNTPVVVRE GATVYATGTH AQVEDGRLME
151 QLLSTVGFCF EVEEDLIDAV TGLSGSGPAY AFTALDALAD GGVKMGLPRR
201 LAVRLGAQAL LGAAMLLHS EQHPGQLKDN VSSPGGATIH ALHVLESGGF
251 RSLINAVEA SCIRTRELQS MADQEQVSPA AIKKTILDKV KLDSPAGTAL
301 SPSGHTKLLP RSLAPAGKD

L58 ANSWER 26 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:796870 CAPLUS Full-text

DOCUMENT NUMBER: 139:303009

TITLE: Sequences of novel human genes related to colon cancer and uses for treatment and diagnosis of colon carcinomas

INVENTOR(S): MacLachlan, Karen; Gately, Dennis

PATENT ASSIGNEE(S): IDEC Pharmaceuticals Corporation, USA

SOURCE: PCT Int. Appl., 118 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| WO 2003083074 | A2 | 20031009 | WO 2003-US9534 | 20030328 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, | | | |

KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

| | | | | |
|------------------------|----|----------|-----------------|------------|
| AU 2003222103 | A1 | 20031013 | AU 2003-222103 | 20030328 |
| US 2006089493 | A1 | 20060427 | US 2005-509131 | 20050920 |
| PRIORITY APPLN. INFO.: | | | US 2002-367727P | P 20020328 |
| | | | US 2002-381328P | P 20020520 |
| | | | US 2002-386747P | P 20020610 |
| | | | US 2002-427564P | P 20021120 |
| | | | US 2002-376727P | P 20020430 |
| | | | WO 2003-US9534 | W 20030328 |

ED Entered STN: 10 Oct 2003

AB The present invention discloses novel human genes related to colon cancer and their uses for treatment and diagnosis of colon carcinomas. Specifically, the nucleic acids and proteins are overexpressed in colon or colorectal tumor tissues, and are useful as diagnostic and therapeutic targets. The invention also relates to development of novel therapies for treatment of cancer, such as colon cancer, involving the administration of anti-sense oligonucleotides corresponding to gene targets that are expressed by certain colon or colorectal cancers.

IT **611270-76-9P**

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; sequences of novel human genes related to colon cancer and uses for treatment and diagnosis of colon carcinomas)

RN 611270-76-9 CAPLUS

CN Protein (human clone chr15.41.013.a colon neoplasm related gene) (9CI)
 (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **611270-76-9P**

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; sequences of novel human genes related to colon cancer and uses for treatment and diagnosis of colon carcinomas)

RN 611270-76-9 CAPLUS

CN Protein (human clone chr15.41.013.a colon neoplasm related gene) (9CI)
 (CA INDEX NAME)

SEQ 1 MTLWNGVLPF YPQPRHAAGF SVPLLVIVLV FLALAASFLL ILPGIRGHSR
 51 WFVLVRVLLS LFIGAEIVAV HFSAEWFGVT VNTNTSYKAF SAARVTARVR
 101 LLVGLEGINI TLTGTPVHQL NETIDYNEQF TWRLKENYAA EYANALEKGL
 151 PDPVLYLAEK FTPSSPCGLY HQYHLAGHYA SATLWVAFCF WLLSNVLLST
 201 PAPLYGGLAL LTTGAFALFG VFALASISSV PLCPLRLGSS ALTTQYGAFF
 251 WVTLATGEDR ENGPRGLRVE TGFTPGVLCL FLGGAVAGKQ CPPGLGQESS
 301 RKGTERCWRE ASDIRRHQ GK SPGAICK

L58 ANSWER 27 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:551280 CAPLUS Full-text

DOCUMENT NUMBER: 139:112733

TITLE: Methods for production of recombinant glycoproteins
 with mammalian-type carbohydrate structures and their
 use for production of immunoglobulins

INVENTOR(S): Wildt, Stefan; Miele, Robert Gordon; Nett, Juergen

PATENT ASSIGNEE(S): Hermann; Davidson, Robert C.
 SOURCE: Glycofi, Inc., USA
 PCT Int. Appl., 125 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 25
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------------------|-------------|
| WO 2003056914 | A1 | 20030717 | WO 2002-US41510 | 20021224 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2471551 | A1 | 20030717 | CA 2002-2471551 | 20021224 |
| AU 2002358296 | A1 | 20030724 | AU 2002-358296 | 20021224 |
| EP 1467615 | A1 | 20041020 | EP 2002-792535 | 20021224 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK | | | | |
| JP 2005514021 | T | 20050519 | JP 2003-557288 | 20021224 |
| US 2005170452 | A1 | 20050804 | US 2003-500240 | 20021224 |
| US 2004230042 | A1 | 20041118 | US 2003-616082 | 20030708 |
| US 2005208617 | A1 | 20050922 | US 2003-680963 | 20031007 |
| US 2006040353 | A1 | 20060223 | US 2005-108088 | 20050415 |
| US 2006024292 | A1 | 20060202 | US 2005-187065 | 20050721 |
| US 2006029604 | A1 | 20060209 | US 2005-187229 | 20050721 |
| US 2006034829 | A1 | 20060216 | US 2005-187079 | 20050721 |
| US 2006034830 | A1 | 20060216 | US 2005-187113 | 20050721 |
| US 2006286637 | A1 | 20061221 | US 2006-429672 | 20060505 |
| US 2007037248 | A1 | 20070215 | US 2006-546101 | 20060803 |
| PRIORITY APPLN. INFO.: | | | US 2001-344169P | P 20011227 |
| | | | US 2000-214358P | P 20000628 |
| | | | US 2000-215638P | P 20000630 |
| | | | US 2001-279997P | P 20010330 |
| | | | US 2001-892591 | A2 20010627 |
| | | | WO 2002-US241510 | W 20021224 |
| | | | WO 2002-US41510 | W 20021224 |
| | | | US 2003-371877 | A2 20030220 |
| | | | US 2003-680963 | A 20031007 |
| | | | WO 2004-US5191 | W 20040220 |
| | | | US 2004-554139P | P 20040317 |
| | | | US 2004-562424P | P 20040415 |
| | | | US 2004-589913P | P 20040721 |
| | | | US 2004-589937P | P 20040721 |
| | | | US 2004-590011P | P 20040721 |
| | | | US 2004-590030P | P 20040721 |
| | | | US 2004-590051P | P 20040721 |
| | | | US 2004-590052P | P 20040721 |
| | | | US 2004-639657P | P 20041223 |
| | | | US 2004-639698P | P 20041223 |
| | | | US 2005-84624 | A2 20050317 |
| | | | US 2005-500240 | A2 20050323 |

ED Entered STN: 18 Jul 2003

AB The present invention relates to host cells having modified lipid-linked oligosaccharides which may be modified further by heterologous expression of a set of glycosyltransferases, sugar transporters and mannosidases to become host-strains for the production of mammalian, e.g., human therapeutic glycoproteins. The process provides an engineered host cell which can be used to express and target any desirable gene(s) involved in glycosylation. Host cells with modified lipid-linked oligosaccharides are created or selected. N-glycans made in the engineered host cells have a GlcNAcMan3GlcNAc2 core structure which may then be modified further by heterologous expression of one or more enzymes, e.g., glycosyltransferases, sugar transporters and mannosidases, to yield human-like glycoproteins. For the production of therapeutic proteins, this method may be adapted to engineer cell lines in which any desired glycosylation structure may be obtained. The invention specifically claims use of nucleic acid sequences for gene ALG3 from *Pichia pastoris*. The ALG3 gene encodes the enzyme which transfers a mannose residue to the Man5-GlcNAc2-PP-Dol precursor. The invention also claims use of genetically engineered host cells for recombinant production of Igs. In examples of the invention, a *Pichia pastoris* strain with deletions of genes *alg3* and *och1* was constructed. This strain was transformed with the Kringle 3 domain of human plasminogen as a glycosylation substrate. Mass spectrometric anal. of N-glycans isolated from the kringle 3 glycoproteins showed GlcNAcMan3GlcNAc2 and GlcNAcMan4GlcNAc2 structures which could be further modified in vitro. Addition of N-acetylglucosamine to GlcNAcMan3GlcNAc2 by N-acetylglucosaminyltransferases II and III yields a "bisected" N-glycan, GlcNAc3Man3GlcNAc2, which has been implicated in greater antibody-dependent cellular cytotoxicity. Methods of the invention can be used to engineer a yeast strain capable of producing glycoproteins with bisected N-glycans and expressing Ig mols. with bisected N-glycans attached to asparagine residue 297 in the CH2 portion.

IT 561372-17-6

RL: PRP (Properties)

(unclaimed sequence; methods for production of recombinant glycoproteins with mammalian-type carbohydrate structures and their use for production of Igs)

RN 561372-17-6 CAPLUS

CN 72: PN: WO03056914 FIGURE: 26 unclaimed sequence (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 561372-17-6

RL: PRP (Properties)

(unclaimed sequence; methods for production of recombinant glycoproteins with mammalian-type carbohydrate structures and their use for production of Igs)

RN 561372-17-6 CAPLUS

CN 72: PN: WO03056914 FIGURE: 26 unclaimed sequence (9CI) (CA INDEX NAME)

```

SEQ      1 MPMKRTPESS LLYARIPGIS FENSPVFDFL SPFGPAPNQW VARYIIIIIFA
      51 ILIRLAVGLG SYSGFNTPPM YGDFEAQRHW MEITQHLSIE KWFYFDLQYW
     101 GLDYPPLTAF HSYFFGKLGS FINPAWFALD VSRGFESVDL KSYMRTAIL
     151 SELLCFIPAV IWYCRWMGLN YFNQNAIEQT IIASAILFNP SLIIIDHGHF
     201 QYNSVMLGFA LLSILNLLYD NFALAAIFFV LSISFKQMAL YYSPIIMFFYM
     251 LSVSCWPLKN FNLLRLATIS IAVLLTFATL LLPFVLVDGM SQIGQILFRV
     301 FPFSGRLFED KVANFWCTTN ILVKYKQLEF DKTLLTRISLV ATLIAISPSC
     351 FIIFTHPKKV LLPWAFACCS WAFYLFSEFV HEKSVLVPLM PTTLLLVKED
     401 LDIISMVCWI SNIAFFSMWP LLKRDGLALE YFVLGILSNW LIGNLNWISK
     451 WLVPFSLIPG PTLKSKVPRK DTKTVVHTHW FWGSVTFVSY LGATVIQFVD
     501 WLYLPPAKYP DLWVILNTTL SFACFGLFWL WINYNLYILR DFKLKDA

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REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L58 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:281945 CAPLUS Full-text
 DOCUMENT NUMBER: 138:285609
 TITLE: cDNA encoding CTPP transmembrane protein and their use
 in diagnosis and treatment of cancer
 INVENTOR(S): Lasek, Amy K. W.; Baughn, Mariah R.; Azimzai, Yalda
 PATENT ASSIGNEE(S): Incyte Genomics, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 47 pp., Cont.-in-part of Appl.
 No. PCT/US00/07817.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|-------------|
| US 2003068311 | A1 | 20030410 | US 2002-187657 | 20020701 |
| US 7105315 | B2 | 20060912 | | |
| WO 2000056891 | A2 | 20000928 | WO 2000-US7817 | 20000322 |
| WO 2000056891 | A3 | 20010405 | | |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 2006275314 | A1 | 20061207 | US 2006-498712 | 20060804 |
| PRIORITY APPLN. INFO.: | | | | |
| | | | US 1999-139565P | P 19990616 |
| | | | WO 2000-US7817 | A2 20000322 |
| | | | US 1999-125537P | P 19990322 |
| | | | US 2002-187657 | A3 20020701 |

ED Entered STN: 11 Apr 2003

AB The invention provides a transmembrane protein that is differentially expressed in neoplastic disorders. It also provides for the use of the protein, a cDNA encoding the protein, and antibodies that specifically bind the protein in various methods to diagnose, stage, treat, or monitor the treatment of a neoplastic disorder.

IT **505104-88-1**

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; cDNA encoding CTPP transmembrane protein and their use in diagnosis and treatment of cancer)

RN 505104-88-1 CAPLUS

CN Transmembrane protein (human clone 4901066CD1 gene CTPP) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **505104-88-1**

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; cDNA encoding CTPP transmembrane protein and

their use in diagnosis and treatment of cancer)
 RN 505104-88-1 CAPLUS
 CN Transmembrane protein (human clone 4901066CD1 gene CTPP) (9CI) (CA INDEX NAME)

SEQ 1 MTLWNGVLPF YPQPRHAAGF SVPLLIVILV FLALAASFLI ILPGIRGHSR
 51 WFWLVRVLLS LFIGAEIVAV HFSAEFVGT VNTNTSYKAF SAARVTARVG
 101 LLVGLEGINI TLTGTPVHQL NETIDYNEQF TWRLKENYAA EYANALEKGL
 151 PDPVLYLAEK FTPSSPCGLY HQYHLAGHYA SATLWVAFCF WLLSNVLLST
 201 PAPLYGGLAL LTTGAFALFG VFALASISSV PLCPLRLGSS ALTTQYGAAF
 251 WVTLATGVLC LFLGGAVVSL QYVRPSALRT LLDQSAKDCS QERGGSPILIL
 301 GDPLHKQAAL PDLKCITTNL

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L58 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:117980 CAPLUS Full-text

DOCUMENT NUMBER: 138:164857

TITLE: Protein and cDNA sequences of human mannosyl transferase associated with bipolar disorder and its use for diagnosing or predicting the susceptibility to bipolar disorder

INVENTOR(S): Evans, Glen A.

PATENT ASSIGNEE(S): Egea Biosciences, Inc., USA

SOURCE: PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------|
| WO 2003012064 | A2 | 20030213 | WO 2002-US24490 | 20020802 |
| WO 2003012064 | A3 | 20031127 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| US 2003104385 | A1 | 20030605 | US 2001-922225 | 20010802 |
| CA 2454850 | A1 | 20030213 | CA 2002-2454850 | 20020802 |
| EP 1421176 | A2 | 20040526 | EP 2002-768397 | 20020802 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK | | | |
| JP 2005508618 | T | 20050407 | JP 2003-517242 | 20020802 |
| PRIORITY APPLN. INFO.: | | | US 2001-922225 | A1 20010802 |
| | | | WO 2002-US24490 | W 20020802 |

ED Entered STN: 14 Feb 2003

AB The present invention provides an protein and cDNA sequences of human mannosyl transferase. Nucleic acids and fragments thereof that correspond to the

mannosyl transferase polypeptide similarly are applicable in therapeutic procedures. The invention also provides a human mannosyl transferase fusion polypeptide and a chromosome 9 fusion polypeptide, both of which result from a chromosomal 10 translocation t(9,11) (p24;q23.1). The fusion nucleic acid sequence that encodes the human mannosyl transferase fusion polypeptide and the fusion nucleic acid sequence that encodes the chromosome 9 fusion polypeptide also are provided. The fusion proteins of the invention and their encoding nucleic acids are useful in methods provided by the present invention for diagnosing or predicting the susceptibility to bipolar disorder.

IT **497216-12-3D**, Mannosyltransferase (human), Subfragments are claimed
 RL: DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (amino acid sequence; protein and cDNA sequences of human mannosyl transferase associated with bipolar disorder and its use for diagnosing or predicting the susceptibility to bipolar disorder)
 RN 497216-12-3 CAPLUS
 CN Mannosyltransferase (human) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **497220-62-9**
 RL: PRP (Properties)
 (unclaimed protein sequence; protein and cDNA sequences of human mannosyl transferase associated with bipolar disorder and its use for diagnosing or predicting the susceptibility to bipolar disorder)
 RN 497220-62-9 CAPLUS
 CN 8: PN: WO03012064 SEQID: 8 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **497216-12-3D**, Mannosyltransferase (human), Subfragments are claimed
 RL: DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (amino acid sequence; protein and cDNA sequences of human mannosyl transferase associated with bipolar disorder and its use for diagnosing or predicting the susceptibility to bipolar disorder)
 RN 497216-12-3 CAPLUS
 CN Mannosyltransferase (human) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **497220-62-9**
 RL: PRP (Properties)
 (unclaimed protein sequence; protein and cDNA sequences of human mannosyl transferase associated with bipolar disorder and its use for diagnosing or predicting the susceptibility to bipolar disorder)
 RN 497220-62-9 CAPLUS
 CN 8: PN: WO03012064 SEQID: 8 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MASRGARQRL KGSGASSGDT APAADKLREL LGSREAGGAE HRTELSGNKA
 51 GQVWAPEGST AFKCLLSARL CAALLSNISD CDETFNYWEP THYLIYEGEGF
 101 QTWEYSPAYA IRSYAYLLLH AWPAAFHARI LQTNKILVfy FLRCLLAFVS
 151 CICELYFYKA VCKKFGHLVHS RMMLAFLVLS TGMFCSSSAF LPSSFMYTT
 201 LIAMTGWYMD KTSIAVLGVA AGAILGWPFs AALGLPIAFD LLVMKHRWKS
 251 FFHWSLMALI LFLVPVVVID SYYYGKLVIA PLNIVLYNVF TPHGPDLYGT
 301 EPWYFYLING FLNFNVAFAL ALLVLPLTSL MEYLLQRFH

L58 ANSWER 30 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:42122 CAPLUS Full-text
 DOCUMENT NUMBER: 138:84592
 TITLE: Mutations in FZD4 gene encoding frizzled 4 receptor
 associated with familial exudative vitreoretinopathy
 and their use in diagnosis and therapy
 INVENTOR(S): MacDonald, Marcia L.; Goldberg, Yigal P.; Hayden,
 Michael R.
 PATENT ASSIGNEE(S): Xenon Genetics, Inc., Can.; University of British
 Columbia
 SOURCE: PCT Int. Appl., 99 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| WO 2003004045 | A2 | 20030116 | WO 2002-CA1016 | 20020705 |
| WO 2003004045 | A3 | 20030530 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |

PRIORITY APPLN. INFO.:
 US 2001-303285P P 20010705
 US 2001-340409P P 20011029
 US 2002-360352P P 20020228

ED Entered STN: 17 Jan 2003

AB Mutations in frizzled 4 receptor genes, such as FZD4, associated with hereditary human visual disorders, such as familial exudative vitreoretinopathy ("FEVR") are disclosed. Methods of use of Wnt and/or Wnt receptor genes and proteins, including in assays for therapeutic agents useful in treating such diseases and/or ameliorating their effects as well as methods of diagnosing diseases and disorders caused by mutations in these genes are provided.

IT **480694-47-1**, Protein (human gene WNT11)

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; mutations in FZD4 gene encoding frizzled 4 receptor associated with familial exudative vitreoretinopathy and their use in diagnosis and therapy)

RN 480694-47-1 CAPLUS

CN Protein (human gene WNT11) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **480694-47-1**, Protein (human gene WNT11)

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; mutations in FZD4 gene encoding frizzled 4 receptor associated with familial exudative vitreoretinopathy and their use in diagnosis and therapy)

RN 480694-47-1 CAPLUS

CN Protein (human gene WNT11) (9CI) (CA INDEX NAME)

SEQ 1 MRARPQVCEA LLFALALQTG VCYGIKWLAL SKTPSALALN QTQHCKQLEG
 51 LVSAQVQLCR SNLELMHTVV HAAREVMKAC RRAFADMRWN CSSIELAPNY
 101 LLDLERGTRE SAFVYALSAA TISHAIARAC TSGDLPGCSC GPVPGEPGP
 151 GNRWGRCADN LSYGLMGAK FSDAPMKVKK TGSQANKLMR LHNSEVGRQA
 201 LRASLEMKCK CHGVSGSCSI RTCWKGLQEL QDVAADLKTR YLSATKVVHR
 251 PMGTRKHLVP KDLDIRPVKD WELVYLQSSP DFCMKNEKVG SHGTQDRQCN
 301 KTSNGSDSCD LMCCGRGYNP YTDRVVERCH CKYHWCCYVT CRRCERTVER
 351 YVCK

L58 ANSWER 31 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:832948 CAPLUS Full-text

DOCUMENT NUMBER: 137:351508

TITLE: Methods of producing or identifying intracellular antibodies (intrabodies) in eukaryotic cells for therapeutic uses

INVENTOR(S): Zauderer, Maurice; Wei, Chungwen; Smith, Ernest S.

PATENT ASSIGNEE(S): University of Rochester Medical Center, USA

SOURCE: PCT Int. Appl., 257 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|------------|
| WO 2002086096 | A2 | 20021031 | WO 2002-US1677 | 20020123 |
| WO 2002086096 | A3 | 20031009 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| AU 2002338446 | A1 | 20021105 | AU 2002-338446 | 20020123 |
| US 2003104402 | A1 | 20030605 | US 2002-52942 | 20020123 |
| PRIORITY APPLN. INFO.: | | | US 2001-263225P | P 20010123 |
| | | | US 2001-263200P | P 20010124 |
| | | | US 2001-271422P | P 20010227 |
| | | | US 2001-298095P | P 20010615 |
| | | | WO 2002-US1677 | W 20020123 |

ED Entered STN: 01 Nov 2002

AB The present invention relates to a high efficiency method of expressing intrabodies or intracellular Ig mols. in eukaryotic cells. The invention is further drawn to a method of producing intracellular Ig libraries, particularly using the trimol. recombination method, for expression in eukaryotic cells. The invention further provides methods of selecting and screening for intracellular Ig mols. and fragments thereof. The invention also provides kits for producing, screening and selecting intracellular Ig mols. Finally, the invention provides intracellular Ig mols. and fragments thereof, produced by the methods provided herein.

IT 474564-70-0

RL: PRP (Properties)

(unclaimed protein sequence; methods of producing or identifying intracellular antibodies (intrabodies) in eukaryotic cells for therapeutic uses)

RN 474564-70-0 CAPLUS

CN L-Isoleucine, L-methionyl-L-leucyl-L-isoleucyl-L-prolyl-L-isoleucyl-L-alanylglycyl-L-phenylalanyl-L-phenylalanyl-L-alanyl-L-leucyl-L-alanylglycyl-L-leucyl-L-valyl-L-leucyl-L-isoleucyl-L-valyl-L-leucyl-L-isoleucyl-L-alanyl-L-tyrosyl-L-leucyl-L-isoleucylglycyl-L-arginyl-L-lysyl-L-arginyl-L-seryl-L-histidyl-L-alanylglycyl-L-tyrosyl-L-glutaminyl-L-threonyl- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 474564-70-0

RL: PRP (Properties)

(unclaimed protein sequence; methods of producing or identifying intracellular antibodies (intrabodies) in eukaryotic cells for therapeutic uses)

RN 474564-70-0 CAPLUS

CN L-Isoleucine, L-methionyl-L-leucyl-L-isoleucyl-L-prolyl-L-isoleucyl-L-alanylglycyl-L-phenylalanyl-L-phenylalanyl-L-alanyl-L-leucyl-L-alanylglycyl-L-leucyl-L-valyl-L-leucyl-L-isoleucyl-L-valyl-L-leucyl-L-isoleucyl-L-alanyl-L-tyrosyl-L-leucyl-L-isoleucylglycyl-L-arginyl-L-lysyl-L-arginyl-L-seryl-L-histidyl-L-alanylglycyl-L-tyrosyl-L-glutaminyl-L-threonyl- (9CI) (CA INDEX NAME)

SEQ 1 MLIPIAGFFA LAGLVLIIVLI AYLIQRKRSH AGYQTI

L58 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:368690 CAPLUS Full-text

DOCUMENT NUMBER: 136:381354

TITLE: Novel markers for diagnosis and therapy of cutaneous T cell lymphoma

INVENTOR(S): Eichmueller, Stefan; Schadendorf, Dirk; Usener, Dirk

PATENT ASSIGNEE(S): Deutsches Krebsforschungszentrum Stiftung des Oeffentlichen Rechts, Germany

SOURCE: PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|
| WO 2002038803 | A2 | 20020516 | WO 2001-DE4229 | 20011108 |
| WO 2002038803 | A3 | 20030717 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, | | | |

IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG

| | | | | |
|---------------|----|----------|------------------|----------|
| DE 10055285 | A1 | 20020606 | DE 2000-10055285 | 20001108 |
| AU 2002018977 | A5 | 20020521 | AU 2002-18977 | 20011108 |
| EP 1349871 | A2 | 20031008 | EP 2001-993706 | 20011108 |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

| | | | | |
|---------------|----|----------|----------------|----------|
| US 2004197782 | A1 | 20041007 | US 2003-416330 | 20031215 |
|---------------|----|----------|----------------|----------|

PRIORITY APPLN. INFO.: DE 2000-10055285 A 20001108
WO 2001-DE4229 W 20011108

ED Entered STN: 18 May 2002

AB The invention relates to novel markers for tumors, preferably cutaneous T cell lymphoma (CTCL). The invention further relates to the application of the above for the diagnosis and therapy of tumor-related diseases, preferably CTCL. Thus, CTCL-associated cDNAs corresponding to 19 different genes were identified, 5 being novel. Of the remaining cDNAs, some displayed sequence homol. to SCP-1, one to NP220, and one to RAP140.

IT **425446-46-4**

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);
ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence; novel markers for diagnosis and therapy of
cutaneous T cell lymphoma)

RN 425446-46-4 CAPLUS

CN Protein GBP-TA (human skin T-cell lymphoma-associated) (9CI) (CA INDEX
NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **425446-46-4**

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);
ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence; novel markers for diagnosis and therapy of
cutaneous T cell lymphoma)

RN 425446-46-4 CAPLUS

CN Protein GBP-TA (human skin T-cell lymphoma-associated) (9CI) (CA INDEX
NAME)

SEQ 1 MALEIHMSDP MCLIENFNEQ LKVNQEAL EI LSAITQPVVV VAIVGLYRTG
51 KSYLMNKLKAG KNKGFSVAST VQSHTKGIWI WCVPHPNWPN HTLVLLDTEG
101 LGDVEKADNK NDIQIFALAL LLSSTFVYNT VNKIDQGAID LLHNVTETLD
151 LLKARNSPDL DRVEDPADSA SFFPDLVWTL RDFCLGLEID GQLVTPDEYL
201 ENSLRPKQGS DQRVQNFNLP RLCIQKFFPK KKCIFIDLPA HQKKLAQLET
251 LPDDELEPEF VQQVTEFCSY IFSHSMTKTL PGGIMVNGSR LKNLVLTYNV
301 AISSGDLPCI ENAVLALAQR ENSAAVQKAI AHYDQQMGOQK VQLPMETLQE
351 LLDLHRTSER EAIEVFMKNS FKDVDQSFQK ELETLLDAKQ NDICKRNLEA
401 SSDYCSALLK DIFGPLEEAV KQGIYSKPGG HNLFIQKTEE LKAKYYREPR
451 KGIQAEEVLQ KYLKSKEVS HAILQTDQAL TETEKKKKEA QVKAEEAEKAE
501 AQRLAAIQRQ NEQMMQERER LHQEQVRQME IAKQNWLAEQ QKMQEQQMQE
551 QAAQLSTTFQ AQNRSLLSEL QHAQRTVNND DPCVLL

L58 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:553599 CAPLUS Full-text

DOCUMENT NUMBER: 133:159917

TITLE: Alpha-2-macroglobulin therapies and drug screening
methods for Alzheimer's disease

INVENTOR(S): Tanzi, Rudolph E.; Kovacs, Dora M.; Saunders, Aleister
J.

PATENT ASSIGNEE(S): General Hospital Corporation, USA
 SOURCE: PCT Int. Appl., 120 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|-------------|
| WO 2000046246 | A1 | 20000810 | WO 2000-US2412 | 20000202 |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 6472140 | B1 | 20021029 | US 1999-241606 | 19990202 |
| EP 1153036 | A1 | 20011114 | EP 2000-907091 | 20000202 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| JP 2002541770 | T | 20021210 | JP 2000-597316 | 20000202 |
| PRIORITY APPLN. INFO.: | | | | |
| | | | US 1999-241606 | A 19990202 |
| | | | US 1997-57655P | P 19970905 |
| | | | US 1998-93297P | P 19980717 |
| | | | US 1998-148503 | A2 19980904 |
| | | | WO 2000-US2412 | W 20000202 |

ED Entered STN: 11 Aug 2000

AB The disclosed invention relates to the finding that the A2M-2 deletion mutation, which is a predisposing factor for Alzheimer's Disease, leads to the production of altered α 2M RNA transcripts and proteins. Based on this finding, the invention provides for new therapeutic agents for AD, including mols. having A β and low d. lipoprotein receptor-related protein (LRP) binding domains, peptides, nucleic acid mols., antisense oligonucleotides, and viral vectors for gene therapy. In addition, the invention relates to pharmaceutical compns. containing these therapeutic agents, methods of using these therapeutic agents to combat Alzheimer's Disease, and methods of screening for therapeutic agents that can combat Alzheimer's Disease.

IT **287743-14-0**, α 2-Macroglobulin (human)

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)
 (amino acid sequence; α 2-macroglobulin therapies and drug screening methods for Alzheimer's disease)

RN 287743-14-0 CAPLUS

CN α 2-Macroglobulin (human) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **287743-14-0**, α 2-Macroglobulin (human)

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)
 (amino acid sequence; α 2-macroglobulin therapies and drug screening methods for Alzheimer's disease)

RN 287743-14-0 CAPLUS

CN α 2-Macroglobulin (human) (9CI) (CA INDEX NAME)

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SEQ      1 MGKNKLLHPS LVLVLLVLLP TDASVSGKPQ YMVLVPSLLH TETTEKGCVL
      51 LSYLNETVTV SASLESVRGN RSLFTDLEAE NDVLHCVAFA VPKSSSNEEV
     101 MFLTQVQKGP TQEFKKRTTV MVKNEDSLVF VQTDKSIYKP GQTVKFRVVS
     151 MDENFHPLNE LIPLVYIQDP KGNRIAQWQS FQLEGGLKQF SFPLSSEPFQ
     201 GSYKVVVQKK SGGRTHEPFT VEEFVLPKFE VQVTVPKIIT ILEEEMNVSV
     251 CGLYTYGKPV PGHVTVSICR KYSDASDCHG EDSQAFCEKF SGQLNSHGCF
     301 YQQVKTKVFQ LKRKEYEMKL HTEAQIQEEG TVVELTGRQS SEITRTITKL
     351 SFVKVDShFR QGIPFFGQVR LVDGKGVPIP NKVIFIRGNE ANYYSNATTD
     401 EHGLVQFSIN TTNVMGTSLT VRVNYKDRSP CYGYQWVSEE HEEAHHTAYL
     451 VFSPSKSFVH LEPMSHELPC GHTQTVQAHY ILNGGTLLGL KKLSFYYLIM
     501 AKGGIVRTGT HGLLVKQEDM KGHFSISIPV KSDIAPVARL LIYAVLPTGD
     551 VIGDSAKYDV ENCLANKVDL SFSPSQSLPA SHAHLRVTAQ PQSVCALRAV
     601 DQSVLLMKPD AELSASSVYN LLPEKDLTGF PGPLNDQDDE DCINRHNVIYI
     651 NGITYTPVSS TNEKDMYSFL EDMGLKAFTN SKIRKPKMCP QLQQYEMHGP
     701 EGLRVGFYES DVMGRGHARL VHVEEPHTET VRKYFPETWI WDLVVVNSAG
     751 VAEVGVTVPD TITEWKAGAF CLSEDAGLGI SSTASLRAFQ PFFVELTMPY
     801 SVIRGEAFTL KATVLNLYPK CIRVSVQLEA SPAFLAVPVE KEQAPHCICA
     851 NGRQTVSWAV TPKSLGNVNF TVSAEALSEQ ELCGTEVPSV PEHGRKDTVI
     901 KPLLVEPEGL EKETTFSNLL CPSGGEVSEE LSLKLPPNVV EESARASVSV
     951 LGDILGSAMQ NTQNLQMPY GCGEQNMVLF APNIYVLDYL NETQQLTPEI
    1001 KSKAIGYLNT GYQRQLNYKH YDGSYSTFGE RYGRNQNTW LTAFLVLTFA
    1051 QARAYIFIDE AHITQALIWL SQRQKDNCGF RSSGSLNNA IKGGVEDEV
    1101 LSAYITIALL EIPLTVTHPV VRNALFCLES AWKTAQEGDH GSHVYTKALL
    1151 AYAFALAGNQ DKRKEVLKSL NEEAVKKDNS VHWERPQKPK APVGHFYEPQ
    1201 APSAEVEMTS YVLLAYLTAQ PAPTSEDLTS ATNIVKWITK QQNAQGGFSS
    1251 TQDTVVALHA LSKYGAATFT RTGKAAQVTI QSSGTFSSKF QVDNNNRLLL
    1301 QQVSLPELPG EYSMKVTGEG CVYLQTSKY NILPEKEEFP FALGVQTLPO
    1351 TCDEPKAHTS FQISLSVSYT GSRASNMAL VDVKMVSGFI PLKPTVKMLE
    1401 RSNHVSRTVE SSNHVLIYLD KVSNQTLSEF FTVLQDVPVR DLKPAIVKVY
    1451 DYYETDEFAI AEYNAPCSKD LGNA

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REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L58 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:452338 CAPLUS Full-text

DOCUMENT NUMBER: 133:85150

TITLE: Protein and cDNA sequences of a Rho GTPase-activating protein, designated PARG, which interacts with PTPL1 phosphatase, and therapeutic uses thereof

INVENTOR(S): Saras, Jan; Franzen, Petra; Aspenstrom, Pontus; Hellman, Ulf; Gonez, Leonel Jorge; Heldin, Carl-Henrik

PATENT ASSIGNEE(S): Ludwig Institute for Cancer Research, USA

SOURCE: U.S., 54 pp., Cont.-in-part of U.S. Ser. No. 805,583, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 6083721 | A | 20000704 | US 1998-80855 | 19980518 |
| US 6475775 | B1 | 20021105 | US 2000-566076 | 20000508 |
| US 2003166232 | A1 | 20030904 | US 2002-177980 | 20020621 |
| PRIORITY APPLN. INFO.: | | | US 1997-805583 | B2 19970225 |
| | | | US 1998-80855 | A3 19980518 |

ED Entered STN: 05 Jul 2000

AB The invention provides protein and cDNA sequences of a Rho GTPase-activating protein, designated PARG, which interacts with PTPL1 phosphatase. PARG is a 150 kDa protein that comprises a GAP domain, a ZPII domain, a cysteine-rich domain, and a PDZ domain. The GAP domain displays strong activity towards Rho, and the C-terminal tail of PARG specifically interacts with the fourth PDZ domain of PTPL1. The invention also relates to methods of modulating Rho GTPase signal transduction, treating cancers, and to drug screening assays.

IT **158651-88-8**

RL: PRP (Properties)

(unclaimed protein sequence; protein and cDNA sequences of a Rho GTPase-activating protein, designated PARG, which interacts with PTPL1 phosphatase, and therapeutic uses thereof)

RN 158651-88-8 CAPLUS

CN Phosphatase, phosphoprotein (phosphotyrosine) (human clone p6B isoenzyme L1) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **158651-88-8**

RL: PRP (Properties)

(unclaimed protein sequence; protein and cDNA sequences of a Rho GTPase-activating protein, designated PARG, which interacts with PTPL1 phosphatase, and therapeutic uses thereof)

RN 158651-88-8 CAPLUS

CN Phosphatase, phosphoprotein (phosphotyrosine) (human clone p6B isoenzyme L1) (9CI) (CA INDEX NAME)

```

SEQ      1 MHVSLAEALE VRGGPLQEEE IWAVLNQSAE SLQELFRKVS LADPAALGFI
      51 ISPWSLLLLP SGSVSFTDEN ISNQDLRAFT APEVLQNQSL TSLSDVEKIH
     101 IYSLGMTLYW GADYEVPSQSQ PIKLGDLHNS ILLGMCEDVI YARVSVRTVL
     151 DACSAHIRNS NCAPSFYSYVK HLVKLVLGNL SGTDQLSCNS EQKPDRSQAI
     201 RDRLRGKGLP TGRSSTSVDL DIQKPPLSHQ TFLNKGLSKS MGFLSIKDTQ
     251 DENYFKDILS DNSGREDSEN TFSPIYQFKTS GPEKKPIPGI DVLSKKKIWA
     301 SMDLLCTAD RDFSSGETAT YRRCHPEAVT VRTSTTPRKK EARYSDGSIA
     351 LDIFGPQKMD PIYHTRELPT SSAISSALDR IRERQKKLQV LREAMNVEEP
     401 VRRYKTYHGD VFSTSSSEPS IISSESDFRQ VRRSEASKRF ESSSGLPGVD
     451 ETLSQGQSQR PSRQYETPFE GNLINQEIML KRQEEELMQL QAKMALRQSR
     501 LSLYPGDTIK ASMLDITRDP LREIALETAM TQRKLRNFFG PEFVKMTIEP
     551 FISLDLPRSI LTKKGKNEDN RRVNIMLLN GQRLELTCDT KTICKDVFDL
     601 VVAHIGLVEH HLFALATLKD NEYFFVDPDL KLTKVAPEGW KEEPKKKTKA
     651 TVNFTLFFRI KFFMDDVSLI QHTLTCHQYY LQLRKDILEE RMHCDDETSL
     701 LLASLALQAE YGDYQPEVHG VSYFRMEHYL PARVMEKLDL SYIKEELPKL
     751 HNTYVGASEK ETELEFLKVC QRLTEYGVHF HRVHPEKKSQ TGILLGVCSK
     801 GVLVFEVHNG VRTLVLRFPPW RETKKISFSK KKITLQNTSD GIKHGFQTDN
     851 SKICQYLLHL CSYQHKFQLQ MRARQSNQDA QDIERASFRS LNLQAESVRG
     901 FNMGRAISTG SLASSTLNKL AVRPLSVQAE ILKRLSCSEL SLYQPLQNSS
     951 KEKNDKASWE EKPREMSKSY HDLSQASLYP HRKNVIVNME PPPQTVAELV
    1001 GKPSHQMSRS DAESLAGVTK LNNSKSVASL NRSPERRKHE SDSSSIEDPG
    1051 QAYVLDVLHK RWSIVSSPER EITLVNLKKD AKYGLGFQII GGEKMGRDL
    1101 GIFISSVAPG GPADFHGCLK PGDR LISVNS VSLEGVSHHA AIEILQNAPE
    1151 DVTLVISQPK EKISKVPSTP VHLTNEMKNY MKKSSYMQDS AIDSSSKDHH
    1201 WSRGTLRHIS ENSFGPSGGL REGSLSSQDS RTESASLSQS QVNGFFASHL
    1251 GDQTWQESQH GSPSPSVISK ATEKETFTDS NQSKTKKPGI SDVTDYSDRG
    1301 DSDMDEATYS SSQDHQTPKQ ESSSSVNTSN KMNFKTFSSS PPKPGDIFEV
    1351 ELAKNDNSLG ISVTGGVNTS VRHGGIYVKA VIPQGAAESD GRIHKGDRVL
    1401 AVNGVLEGA THKQAVETLR NTGQVVHLLL EKGQSPTSKE HVPVTPQCTL
    1451 SDQNAQGGQP EKVKKTTQVK DYSFVTEENT FEVKLFKNSS GLGFSFSRED
    1501 NLIPEQINAS IVRVKKLFAG QPAAESGKID VGDVILKVNG ASLKGLSQQE

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1551 VISALRG TAP EVFLLLCRPP PGVLPEIDTA LLTPLQSPAQ VLPNSSKDSS
 1601 QPSCVEQSTS SDENEMSDKS KKQCKSPSRR DSYSDSSGSG EDDLVTAPAN
 1651 ISNSTWSSAL HQTLNMQVSQ AQSHHEAPKS QEDTICTMFY YPQKIPNKPE
 1701 FEDSNPSPLP PDMAFGQSYQ PQSESASSSS MDKYHIHHIS EPTRQENWTP
 1751 LKNDLENHLE DFELEVELLI TLIKSEKASL GFTVTKGNQR IGCYVHDVIQ
 1801 DPAKSDGRLK PGDRLIKVND TDVTNMTHTD AVNLLRAASK TVRLVIGRVL
 1851 ELPRIPLMPH LLPDITLTCN KEELGFSLCG GHDSLYQVVY ISDINPRVA
 1901 AIEGNLQLLD VIHYVNGVST QGMTLEEVNR ALDMSLPSLV LKATRNDLPV
 1951 VPSSKRSVAVS APKSTKNGS YSVGSCSQA LTPNDSFSTV AGEEINEISY
 2001 PKGKCSYQI KGSPNLTLPK ESYIQEDDIY DDSQEAQVIQ SLLDVVDEEA
 2051 QNLLNENNA GYSCGPGTLK MNGKLSEERT EDTDCDGSP PEYFTEATKM
 2101 NGCEEYCEEK VKSESLIQKP QEKKTDDDEI TWGNDELPIE RTNHEDSDKD
 2151 HSFLTNDELA VLPVVKVLPs GKYTGANLKS VIRVLRGLLD QGIPSKELN
 2201 LQELKPLDQC LIGQTKENRR KNRYKNILPY DATRVPLGDE GGYINASFIK
 2251 IPVGKEEFVY IACQGPLPTT VGDFWQMIWE QKSTVIAMMT QEVEGEKIKC
 2301 QRYWPNILGK TTMVSNRLRL ALVRMQLKQ FVVRAMTLED IQTREVRHIS
 2351 HLNFTAWPDH DTPSQPDDL TFI SYMRHIH RSGPIITHCS AGIGRSGTLI
 2401 CIDVVLGLIS QDLDFDISDL VRCMRLQRHG MVQTEDQYIF CYQVILYVLT
 2451 RLQAEQEQKQ QPQLLK

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L58 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1998:672481 CAPLUS Full-text
 DOCUMENT NUMBER: 129:293890
 TITLE: **Ligand/lytic peptide compositions and methods of use**
 INVENTOR(S): Enright, Frederick M.; Jaynes, Jesse M.; Hansel, William B.; Koonce, Kenneth L.; Foil, Lane D.
 PATENT ASSIGNEE(S): Demeter Biotechnologies, Ltd., USA; Louisiana State University and Agricultural and Mechanical College
 SOURCE: PCT Int. Appl., 49 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

NOY toxic open

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
| WO 9842364 | A1 | 19981001 | WO 1998-US6013 | 19980326 |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| AU 9865879 | A | 19981020 | AU 1998-65879 | 19980326 |
| EP 988048 | A1 | 20000329 | EP 1998-912077 | 19980326 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| CA 2302392 | A1 | 19990311 | CA 1998-2302392 | 19980901 |
| WO 9911282 | A1 | 19990311 | WO 1998-US18117 | 19980901 |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, | | | | |

KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO,
 NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA,
 UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
 CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

| | | | | |
|------------------------|----|----------|-----------------|------------|
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| JP 2001514231 | T | 20010911 | JP 2000-508384 | 19980901 |
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| PRIORITY APPLN. INFO.: | | | US 1997-41009P | P 19970327 |
| | | | US 1997-869153 | A 19970604 |
| | | | US 1997-57456P | P 19970903 |
| | | | WO 1998-US6013 | W 19980326 |
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ED Entered STN: 23 Oct 1998

AB Amphipathic lytic peptides are ideally suited to use in a ligand/cytotoxin combination to specifically inhibit cells that are driven by or are dependent upon a specific ligand interaction; for example, to induce sterility or long-term contraception, or to attack tumor cells, or to selectively lyse virally-infected cells, or to attack lymphocytes responsible for autoimmune diseases. The peptides act directly on cell membranes, and need not be internalized. Administering a combination of gonadotropin-releasing hormone (GnRH) (or a GnRH agonist) and a membrane-active lytic peptide produces long-term contraception or sterilization in animals in vivo. Administering in vivo a combination of a ligand and a membrane-active lytic peptide kills cells with a receptor for the ligand. The compds. are relatively small, and are not antigenic. Lysis of gonadotropes has been observed to be very rapid (on the order of ten minutes). Lysis of tumor cells is rapid. The two components - the ligand and the lytic peptide - may optionally be administered as a fusion peptide, or they may be administered sep., with the ligand administered slightly before the lytic peptide, to activate cells with receptors for the ligand, and thereby make those cells susceptible to lysis by the lytic peptide. The compds. may be used in gene therapy to treat malignant or non-malignant tumors, and other diseases caused by clones or populations of "normal" host cells bearing specific receptors (such as lymphocytes), because genes encoding a lytic peptide or encoding a lytic peptide/peptide hormone fusion may readily be inserted into hematopoietic stem cells or myeloid precursor cells.

IT 133084-63-6, Hecate

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

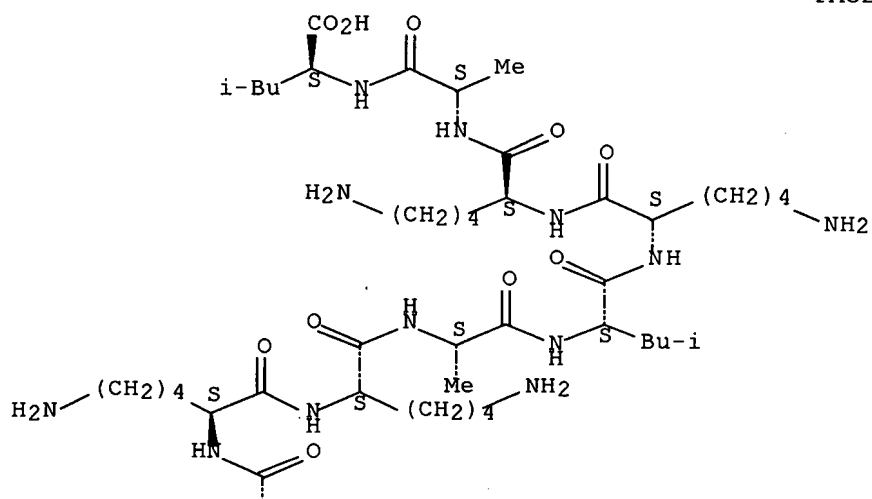
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RN 133084-63-6 CAPLUS

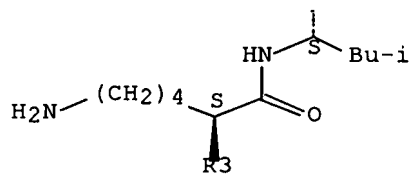
CN L-Leucine, L-phenylalanyl-L-alanyl-L-leucyl-L-alanyl-L-leucyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

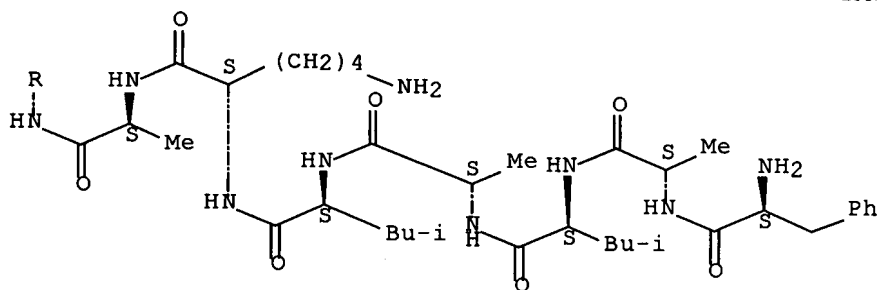
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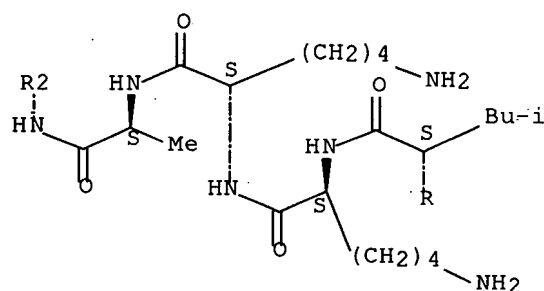
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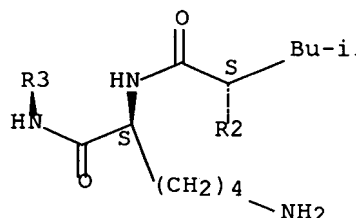
PAGE 3-A



PAGE 4-A



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IT 214142-46-8 214142-48-0

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(ligand/lytic peptide compns. for contraceptive and therapeutic use)

RN 214142-46-8 CAPLUS

CN L-Leucine, L-glutaminyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosylglycyl-L-leucyl-L-arginyl-L-prolylglycyl-L-phenylalanyl-L-alanyl-L-leucyl-L-alanyl-L-leucyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 214142-48-0 CAPLUS

CN Glycine, L-phenylalanyl-L-alanyl-L-leucyl-L-alanyl-L-leucyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-glutaminyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosylglycyl-L-leucyl-L-arginyl-L-prolyl- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 133084-63-6, Hecate

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(ligand/lytic peptide compns. for contraceptive and therapeutic use)

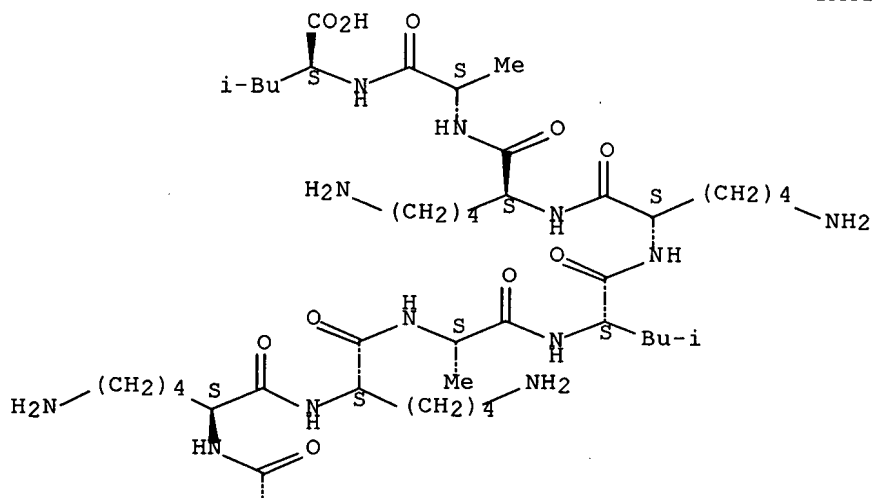
RN 133084-63-6 CAPLUS

CN L-Leucine, L-phenylalanyl-L-alanyl-L-leucyl-L-alanyl-L-leucyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-leucyl-

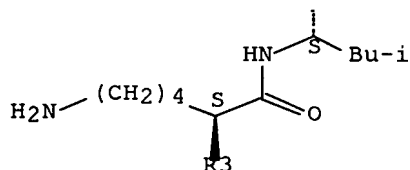
L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

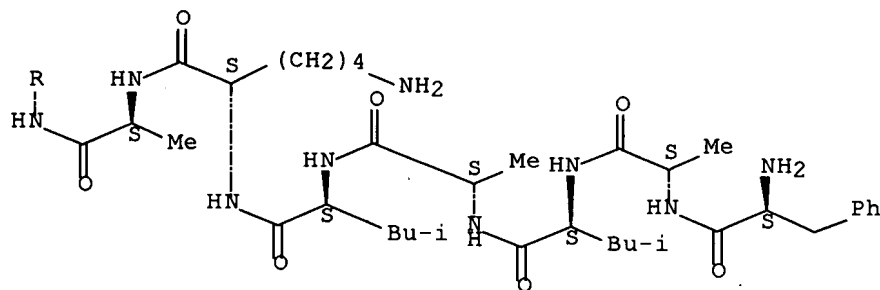
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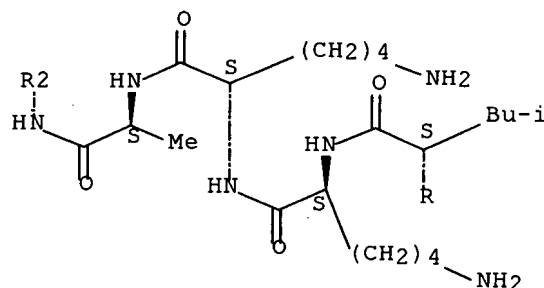
PAGE 2-A



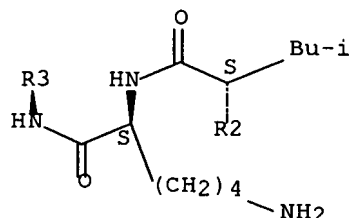
PAGE 3-A



PAGE 4-A



PAGE 5-A



IT 214142-46-8 214142-48-0

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (ligand/lytic peptide compns. for contraceptive and therapeutic use)

RN 214142-46-8 CAPLUS

CN L-Leucine, L-glutaminyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosylglycyl-L-leucyl-L-arginyl-L-prolylglycyl-L-phenylalanyl-L-alanyl-L-leucyl-L-alanyl-L-leucyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl- (9CI) (CA INDEX NAME)

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RN 214142-48-0 CAPLUS

CN Glycine, L-phenylalanyl-L-alanyl-L-leucyl-L-alanyl-L-leucyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-lysyl-L-lysyl-L-alanyl-L-leucyl-L-glutaminyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosylglycyl-L-leucyl-L-arginyl-L-prolyl- (9CI) (CA INDEX NAME)

SEQ 1 FALALKALKK ALKKLKKALK KALQHWSYGL RPG

REFERENCE COUNT:

2

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